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The
CHEMIST AND DRUGGIST

RETAILER — WHOLESALE — MANUFACTURER

AUGUST 6, 1949

Have the

WRIGHT

answer ready!

Your customers need no longer be deprived of their **WRIGHT'S**. Easing of controls now gives you the freedom to stock the soap they prefer.

Powerful national advertising is constantly putting over the **WRIGHT** idea to a public anxious to obtain the finest value in toilet soap.

Specify **WRIGHT'S** on your S.P. forms, and be sure to order sufficient to satisfy all demands.

IDEAL FOR TOILET AND NURSERY

Wright's
Coal Tar Soap



RIGHT LAYMAN AND UMNEY LTD., SOUTHWARK, LONDON, S.E.1. HOP 4021

essential vitamins in a water-soluble form



ABIDEC Drops

PARKE, DAVIS & CO.,
HOUNSLOW, MIDDLESEX.

Inc. U.S.A. Liability Ltd.

A unique preparation—a clear, non-viscous, non-oily and stable multivitamin solution which dissolves immediately in water, milk, soup or children's food without altering the taste; can be dropped directly on the tongue.

One five-minim dose supplies an infant's daily requirements of vitamins A and D, and the water-soluble vitamins B₁, B₂, C and nicotinamide.

M.R.P. : 5/6 per 10 c.c. dropper-bottle (Exempt P.T.)



PAT.

**It's Advertised as
a Chemists' Line!**

Spe 22/- Pack
one bottle free)
now available.



ELASTO advertising is widespread and consistent. An ever increasing demand for this product is being created at your very door. Are you taking full advantage of this opportunity for new business created in your area by this vigorous campaign? 'Elasto' sales-aids displayed in your window or on your counter will convert the 'prospect' we have created into a customer for you. And remember repeats and recommendations come freely from initial sales of 'Elasto'.

THE NEW ERA TREATMENT CO. LTD., CECIL HOUSE, HOLBORN VIADUCT, LONDON

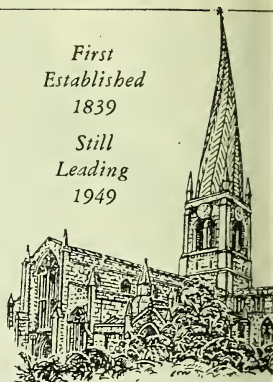
**NEW DISPLAY MATERIAL AND BOOKLETS
NOW AVAILABLE**

ROBINSONS OF CHESTERFIELD

For over a century
Stock Round Boxes
for the Chemist
have been manufactured by

ROBINSONS OF CHESTERFIELD

*First
 Established
 1839
 Still
 Leading
 1949*



*All boxes in these categories are now back to pre-war standards
 The quality being improved by modern methods of manufacture
 Specifications & standards to comply with N.H.S & B.S.I Specifications*

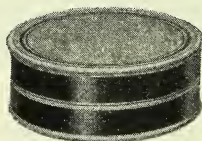
PILL BOXES



SCARLET
(G.P.O.)

WHITE
(P.I.)

**PURPLE,
 WHITE EDGES**
(P.I.)



PURPLE FLANGED

*Supplies are unrationed
 and your order can be met
 through your usual source*

"LITTLE JOHN" DRUMS



**CRYSTALS : POWDERS
 TABLETS**

OINTMENT BOXES



**SEALITE
 WAX IMPREGNATED**



**CHEPETTE
 GREASEPROOF**

Telegrams :
 "Boxes
 Chesterfield"

ROBINSON & SONS, LTD.
 WHEAT BRIDGE MILLS, CHESTERFIELD

Telephone :
 2105
 (6 lines)

London Office: King's Bourne House, 229-231 High Holborn, W.C.1. Telephone: HOLBO

See our Stand at the NATIONAL PACKAGING EXHIBITION. Stand No. 40. Ma

STRONGER!



The vitamin content of Crookes Halibut Oil capsules has now been increased although the price remains unchanged.

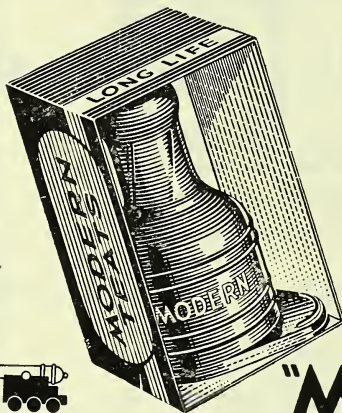
IT has become possible to increase, by as much as one-third, the vitamin content of Crookes Halibut Oil Capsules. Each capsule now contains 6,000 International Units of 'protective' vitamin A and 600 of 'sunshine' vitamin D. The label on each pack states a guaranteed potency. Old stocks should continue to be supplied to the public until the 15th September, when our new public advertising campaign begins. As from the 15th September we will take back from retailers and wholesalers stocks of old potency capsules and replace with the new. Note: Only the capsules are of increased potency—the plain oil remains as before. Further details, bonus terms, etc., will be mailed to all retailers on the 1st September.

CROOKES

HALIBUT OIL CAPSULES

THE CROOKES LABORATORIES LIMITED · PARK ROYAL · LONDON · N.W.10

**PLEASE MARK
YOUR ORDERS**



*One Hole
OR
3-Hole*
PERFORATION

It does not appear to be generally known that the "MODERN" Teat, now being sold in ever increasing numbers, is available both in 1-hole and 3-hole perforation. The mother's choice is dictated by the individual needs of Baby and it is worth while to have both varieties in stock.

In an attractive, transparent pack, the "MODERN" Teat is backed by consistent National advertising (From your regular wholesaler).

RETAILERS! Send now for a supply of the new "MODERN" Weight Card and sales promoting showcards direct to the manufacturers of the

"MODERN" TEAT ANTI-COLIC

CANNON RUBBER MANUFACTURERS LTD. (Dept 15y) 5A WELBOURNE RD., TOTTENHAM, LONDON, N.

Introducing

the new 100 tablet packing of



As the existing 500 tablet pack of TAXOL is now a "tax free" dispensing pack and is thus not available to the general public we have decided to introduce a 100 tablet size for those customers who desire a pack larger than the normal standard size of 50 tablets.

PATA Trade Prices

50 tablets	-	-	-	25/- per dozen + 8/1 P.T.
100 tablets	-	-	-	46/- per dozen + 14/10 P.T.
500 tablets (Dispensing Size)	-	-	-	200/- per dozen (tax free)

CONTINENTAL LABORATORIES LTD.

101 GREAT RUSSELL STREET, LONDON, W.C.1

Telephone: Museum 2042-3

Telegrams: Taxolabs, Phone, London

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(continued overleaf)

In the care and hygiene of the scalp

'Pragmatar'—the improved tar-sulphur-salicylic-acid ointment—is now being regularly prescribed in the general care and hygiene of the seborrhoeic scalp. It can readily be washed out of the hair or allowed to remain as a pleasant dressing. Dandruff

often intensifies and prolongs the course of acne, and consequently 'Pragmatar' is a valuable aid in the management of this common disorder. The wide margin of safety of 'Pragmatar' makes it especially suitable for children, as well as for adults.

• Sued in 1-oz. collapsible
Trade price 27/- per
doz. Purchase Tax 9/- per
doz. Retail price 3/9 each,
in Tax.

'PRAGMATAR'

Cetyl-alcohol-coal-tar distillate 4%; sulphur 3%; salicylic acid 3% in a washable base.

M L EY & JAMES, LIMITED, 123 COLDHARBOUR LANE, LONDON, S.E.5
for Smith Kline & French International Co., owner of the trade mark 'Pragmatar'
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RADIOSTOLEUM

Trade Mark

Liquid and Capsules of Concentrated Vitamins A and D

The vitamin A in Radiostoleum is prepared by molecular distillation, a process which produces a product of high concentration and remarkable freedom from objectionable flavour or odour.

THE BRITISH DRUG HOUSES LTD. LONDON N.1

PRICES REDUCED

on and from
2nd August, 1949

LIQUID

Trade Re

Bottle of 25 ml. 2/9½

Bottle of 100 ml. 9/9 1/-

CAPSULES

Trade Re

Tins of 50 2/8

Bottles of 500 18/- 2/-

P.A.T.A

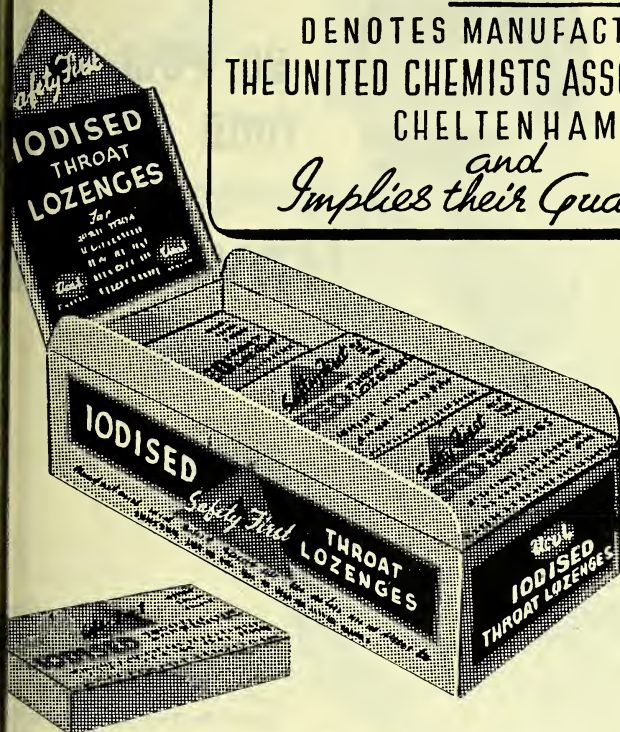
Retm

The Brand Name

Ucal

DENOTES MANUFACTURE BY
THE UNITED CHEMISTS ASSOCIATION LTD
CHELTENHAM

*and
Implies their Guarantee*



IODISED THROAT LOZENGES

10½d. per box,

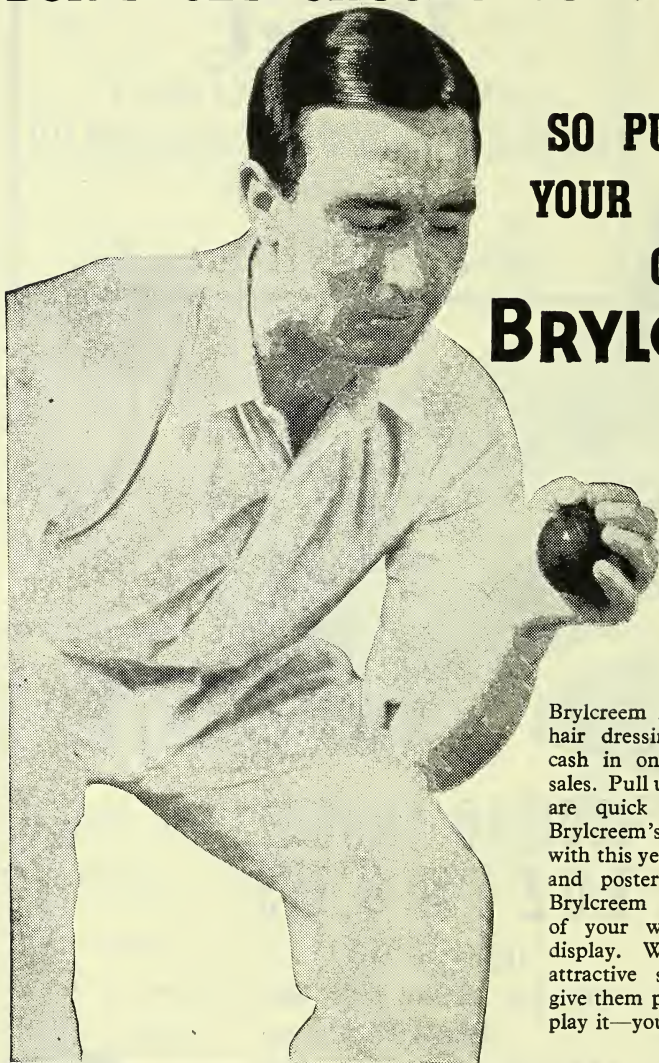
5/- per dozen plus tax.

Tins 1/6,

9/- per dozen plus tax.

THIS IS A GUARANTEED PRODUCT
SOLD *only* THROUGH **Ucal** CHEMISTS

DON'T GET CAUGHT OUT!

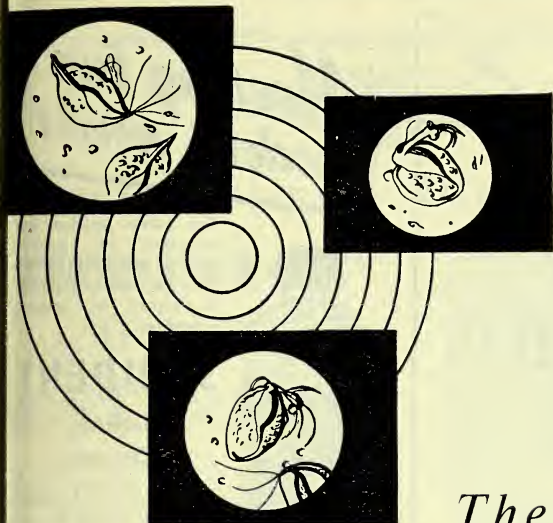


SO PULL UP YOUR STOCKS OF BRYLCREEM

Brylcreem is the biggest-selling hair dressing. Make sure you cash in on Brylcreem's record sales. Pull up your stocks. There are quick profits for you in Brylcreem's quick sales. Link up with this year's even bigger profits and poster advertising. Make Brylcreem a permanent feature of your window and counter display. Write to us for the attractive showcards that will give them punch. Stock it, display it—you'll sell it!

BRYLCREEM

THE PERFECT
HAIR DRESSING



The picture in
LEUCORRHOEA . .

three or four flagellae in front, an undulating membrane, and one flagellum behind. With this equipment the trichomonas vaginalis parasite produces its characteristic symptoms and calls for specific treatment.

'Devegan' provides this. The arsonic acid component destroys the organism; the carbohydrate constituent restores the normal vaginal flora.

Initial treatment is preferably by insufflation of powder. Later the patient is instructed in the insertion of tablets.

 **'DEVEGAN'**

Brand of
VAGINAL TABLETS

Supplied in *Powder* form — boxes of 5 x 4g. and *Tablets* form — packings of 30, 150 and 1,000. Each Tablet contains 0.25g. acetylaminohydroxyphenyl — arsonic acid; each 4g. of powder contains 0.8g.

BAYER PRODUCTS LIMITED
AFRICA HOUSE · KINGSWAY · W.C.2 · (Tel. HOLBORN 8730)

*A Name
and a
Standard*

"SURE SHIELD"

(Reg'd. Trade Mark)

BRAND

**IODISED THROAT
TABLETS**

**GLYCERINE of THYMOL
PASTILLES**

FRUIT LAXATIVES

**LOZENGES · PASTILLES
TABLETS**

In bulk and ATTRACTIVE PACKS

Thos. Guest & Co Ltd

Manufacturing Chemists

CARRUTHERS ST., MANCHESTER, 4

Tele. No.:
Collyhurst 2975

Telegrams:
"Guesto" Manchester

*Meeting two
modern needs*

The bottle position has improved for SANIDENT and ZOFLORA sizes and we are now able to supply in greater quantities.



SANIDENT

*Denture
Cleaner*

Twenty years of regular use have proved its efficiency and safety.

Retail 1/4½

*LAST THING
EVERY NIGHT*



Zoflora

*Perfumed
DISINFECTANT*

is an efficient germicide, fragrant with strongly antiseptic floral oils and synthetics, and is especially suitable for the spraying of rooms, to dispel tobacco, cooking or unwanted odours. It is of particular value in the sickroom, where it purifies the atmosphere and refreshes nurses and patients alike.

*PURIFIES
THE AIR*

Retail Price 2/-
Complete Spraying
Outfit 10/-

Usual Trade Discounts

TR 140

THORNTON & ROSS
Manufacturing Chemists
LINTHWAITE · HUDDERSFIELD



Special Display Discount Offer

meritor

D.D.T.

ANTIMOTH

Biggest Value

in

MOTH RINGS



- 8 GIANT WHITE RINGS IN A PACKET
- IMPREGNATED WITH D.D.T.
- SMART COLOURED TRANSPARENT WRAPPINGS PRINTED IN GOLD
- COMPACT SALES UNIT FREE WITH ORDERS FOR 2 DOZEN PACKETS

Special Display Discount Offer:—

Less than 6 Doz.	Price 6/-	Doz.	Less 5%
6 Doz. Lots	„ 5/10	„	Less 10%
12 Doz. Lots	„ 5/8	„	Less 15%—Retail 9d.

Profit on Cost — 57% on Smalls to 87% on reasonable Quantities

MAW SON & SONS LTD. BARNET, HERTS.



These sell quickly

PARKINSONS' PILLS, KILF, VITAGRAINS and the de range of other preparations sell quickly and bring repeat sales through their quality.

NATIONALLY ADVERTISED

PARKINSONS OF BURNLEY

It's Ritchie's
for **YOUR Sundries**

HAIR BRUSHES	DRESSINGS OF ALL TYPES
SHAVING BRUSHES	
TOOTH BRUSHES	DUNLOPILLO
COMBS	CUSHIONS
SOAP CASES	SPONTEX SPONGES
ULTRA-VIOLET	ORTHO-GYNOL
LAMP	ORTHO-CREME
INFRA RED LAMPS	ORTHO-
INFRADYSER	DIAPHRAGMS
BATHROOM SCALES	FOOT SUPPORTS
SURGICAL	(ORTHO-PADS)
INSTRUMENTS	BUNION PADS

Full particulars with pleasure from :

Geo. B. Ritchie

& CO.

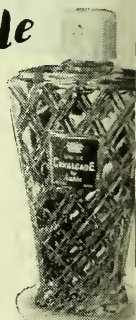
249 Buchanan St., Glasgow, C.I

Daily : 9 a.m.—5.30 p.m. Sats. 1 p.m.

Tel. : DOU 0532/3

ALWAYS IN DEMAND

*Eau de
Cavalcade
by
hanri*



THE MOST OUTSTANDING
PERFUMED COLOGNE
MARKETED TO-DAY. ITS
APPEAL TO EVERYWOMAN
OFFERS CONTINUOUS
PROFIT TO EVERY
STOCKIST

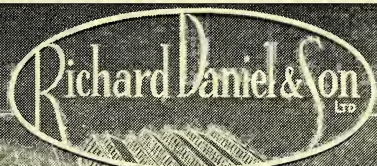
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417/419 BATTERSEA PARK RD., LONDON, S.W.
TELEPHONE : BATTERSEA 650516

PARIS

LONDON



PROPRIETARIES
SUNDRIES DRUGS
TABLETS & PILLS

FOR
CHEMISTS

*Manufacturing
Chemists*

Office & Works Mansfield Road Derby Telephone 4266 (4 lines) Branch Warehouse Grosvenor St. Ashton near Lyne Telephone 2816 (2 lines)

ASPIRIN THERAPY BROUGHT TO PERFECTION



MAGSILATE

EATEN LIKE A SWEET -ANYTIME-ANYWHERE

No water required

- Quicker absorption—more effective action.
- No gastric disturbance.
- Fully protected against deterioration.
- Palatable.



MAGSILATE is a CF product, sold *through chemists only*. Terms are profitable. Attractive showcards, informative literature and free samples supplied with orders.

WESTMINSTER LABORATORIES LTD.
Chalcot Road, London, N.W.1.

Supplied in two sizes :—4d. & 1/10d.
(inc. P. Tax) and Dispensing Packs of 125
and 500 Tablets, 9/- and 35/- free of P. Tax.



See for yourself



See for yourself (as the Nufix advertisements say) what a brisk and regular turnover comes from stocking this modern hair dressing. You can safely recommend Nufix to your



most particular customers. It is a highly reputable product, very pleasant to use, and contains specially treated vegetable oils and lanolin. Try it yourself and you'll say:

Nufix—that's better

**TABLETS LOZENGES
CAPSULES & PILLS**

PESSARIES
of Silver Picrate
N.F., and Tablets
of Digoxin 0.25
mgm. N.F., now
available.

MATTHEWS & WILSON LTD
Established 1894
6-8, COLE ST. LONDON, S.E.1.
Proprietors of "SUDEX" Senna Pods
Telegrams: PILLEOLUM, SEDIST, LONDON. Telephone: HOP 2147-8

4711

means
EAU de COLOGNE
(Blue and Gold Label)
in any language
the world over



*The Hall-Mark of Fine Eau de Cologne
and Aids to Beauty*

Made in England

R. J. REUTER
COMPANY LIMITED, SLOUGH, BUCKS.
Telephone: Slough 20341-2

Viacutan Cream

(contains 1% silver dinaphthylmethane disulphonate)

Viacutan in the form of a 1% solution is being increasingly prescribed for varicose ulcers, in surgery, gynaecology, etc. Now it is also available as a 1% water-miscible cream for use primarily in dermatology—ulcers, pyoderma, eczema, etc., and for the treatment of burns and scalds.

PACKING—1 oz. jars—2/9 each retail price
1 lb. jars—18/- each retail price
(P.T. extra)

Penotrane Cream

(contains 0.1% phenylmercuric dinaphthylmethane disulphonate)

Penotrane is a potent bactericide and fungicide with remarkable powers of penetration and fixation within the tissues—The cream is non-staining, water-miscible and is recommended for the treatment of fungal infections of the skin including ringworm and athletes foot.

PACKING—1 oz. tubes—2/6 each retail price
1 lb. jars—16/6 each retail price
(P.T. extra)

Literature is available on request

WARD, BLENKINSOP & CO., LTD.

6 HENRIETTA PLACE, LONDON, W.1

Telephone : LAngham 3185

Telegrams : Duochem, Wesdo, London

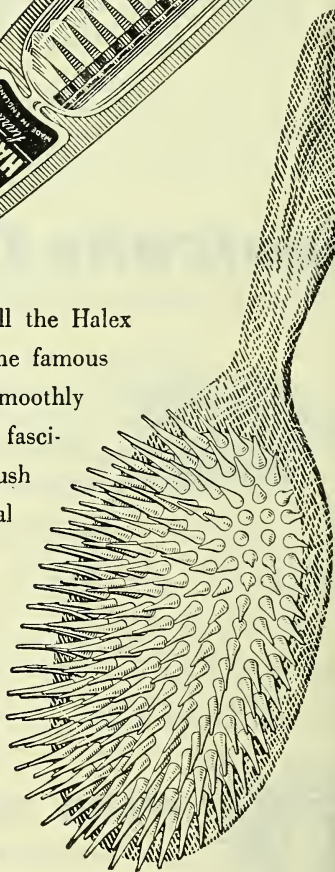


*It pays to
display your*
HALEX
goods!



Let your window and your counter tell the Halex story. Show people that you stock the famous *Rondated* toothbrushes with the smoothly tipped nylon strands. Cash in on the fascinating look of the Halex Combing Brush with its flexible plastic quills. This unusual instrument is fast becoming a fashion as well as a favourite with women who take a pride in their hair.

Then there are the ever-popular pneumatic hairbrushes with their firm but springy nylon tufts, dainty baby sets, toilet sets, saw-cut combs and colourful fancy goods of every kind.



HALEX LIMITED, HALE END, LONDON, E

RONDATED is a registered trade name of Halex Limited.

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NATIONAL TRUST



CHARLECOTE PARK, STRATFORD-ON-AVON.
Charlecote House is situated in 225
acres of beautiful parkland, and was
originally built in 1558.



Potter & Clarke Ltd.
DRUG MERCHANTS & MANUFACTURING CHEMISTS

London & Manchester

7 *more* **MONSANTO** **PHARMACEUTICALS** *of high quality*

SODIUM BENZOATE B.P.

Physical Form: White Powder.

Main Use: General pharmaceutical; preservative; manufacture of tooth paste and cosmetics.

ASPIRIN (Acetylsalicylic Acid B.P.)

Physical Form: Granular (Aspirgran); crystals; powder.

Main Use: Manufacture of aspirin tablets and powders; for general pharmaceutical and veterinary purposes.

LYSOL B.P.

Physical Form: Saponified solution of cresol.

Main Use: Antiseptic and disinfectant for surgical purposes.

CRESANTOL 15

Physical Form: Clear brown liquid. R.W. coefficient equivalent to 65.

Main Use: Manufacture of antiseptic and disinfectant fluids.

CRESANTOL 15-R

Physical Form: As 15 but milder. R.W. coefficient equivalent to 65.

Main Use: Manufacture of antiseptic and disinfectant fluids.

P.C.M.C.

Physical Form: Small crystals.

Main Use: Preserving various industrial products and pharmaceutical preparations against spoilage by micro-organisms; supplementary germicide for antiseptic fluids. P.C.M.X. is at present very restricted.

PHENOLPHTHALEIN B.P.

Physical Form: White odourless powder.

Main Use: General pharmaceutical.

Monsanto **Pharmaceuticals** **Include:**

ASPIRIN

ASPIRGRAN

ACETYL SALICYLIC ACID
B.P.

SODIUM SALICYLATE B.P.

SALICYLIC ACID B.P.

METHYL SALICYLATE B.P.

PHENACETIN B.P.

SODIUM BENZOATE B.P.

BENZOIC ACID B.P.

SALICYLIC ACID
(Technical)

PHENOL B.P.

CRESOL B.P.

CRESANTOL 3

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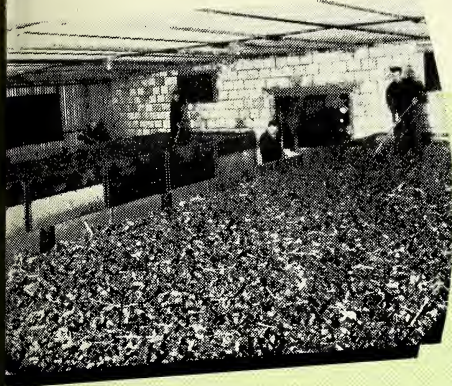


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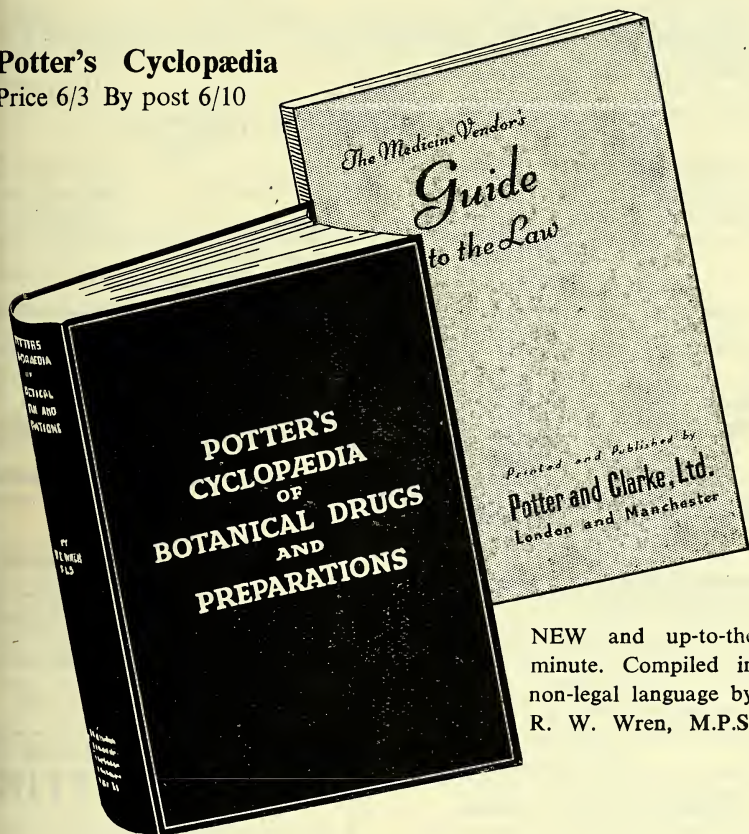
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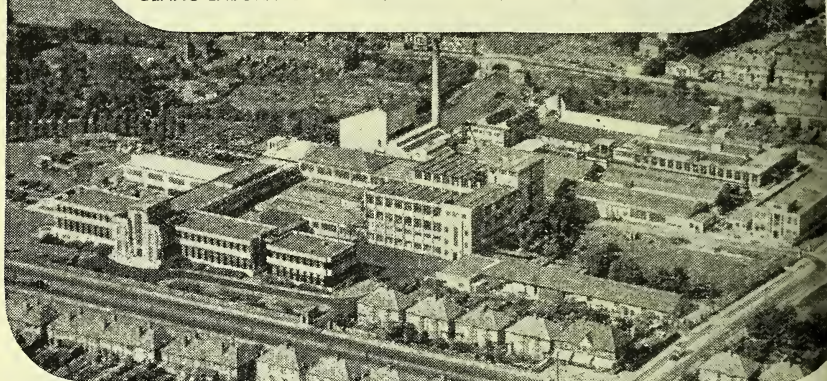
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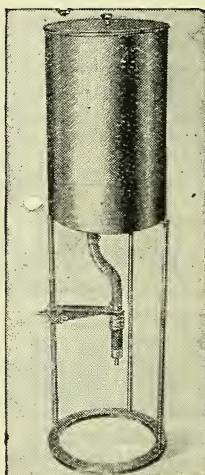
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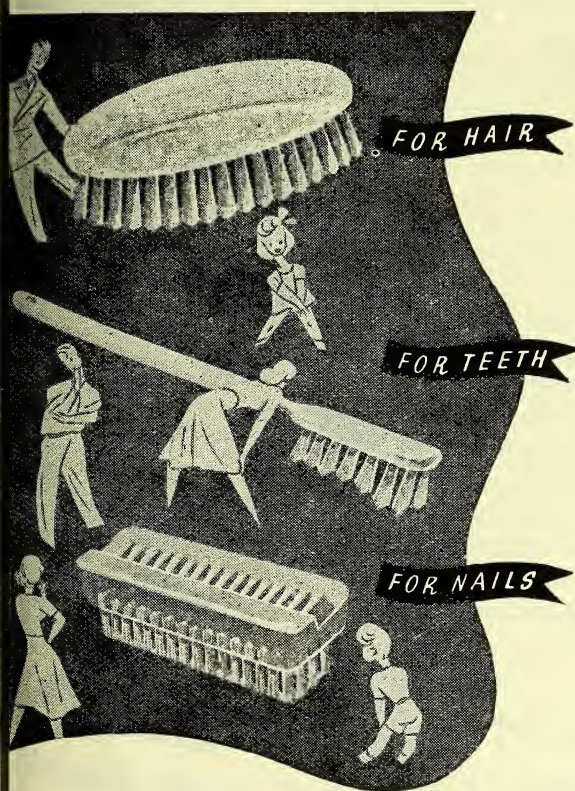
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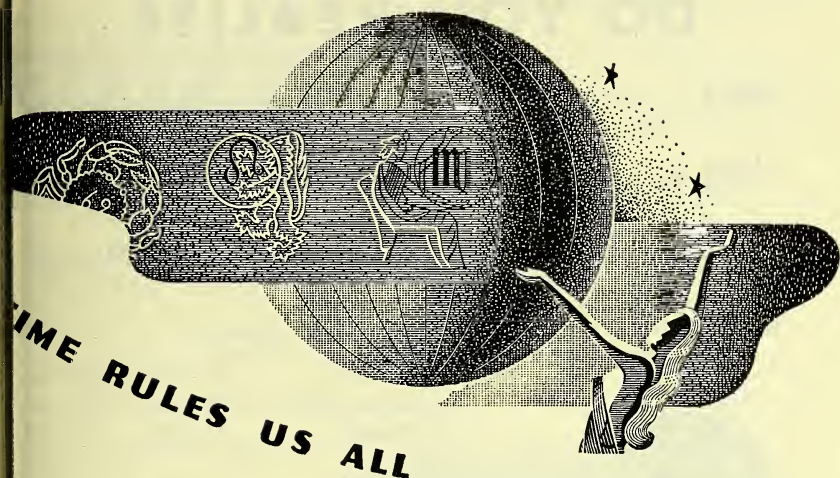
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... but for customers who depend on insulin to control carbohydrate metabolism it assumes an even greater significance.

In the selection of the type of insulin, speed of action and duration of effect are all-important factors. There are forms of A.B. brand of Insulin to meet all requirements.

INSULIN A.B.: The original unmodified type. Immediately effective but relatively short-lived.

5 and 10 c.c. vials (20, 40 and 80 units per c.c.)

GLOBIN INSULIN (with Zinc) A.B.: A combination of insulin and globin which has a slower and more prolonged action than Insulin A.B.

5 c.c. vials (40 and 80 units per c.c.)

PROTAMINE ZINC INSULIN A.B.: A suspension of insulin precipitated by protamine which is absorbed slowly, thus delaying the initial action and prolonging the effect for 24 hours and upwards.

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Insulin A.B.

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THE BRITISH DRUG HOUSES LTD.

DO YOU REALISE...

- that** each N.H.S. prescription brings to your shop a potential user of Hygex Personal Brushes?
- that** a prominent counter display will INCREASE your SALES?
- that** Hygex Hair Brushes are advertised to 14,000,000 people every month?
- that** your customers can afford Hygex Brushes—

Hair Brushes . . .	5s. 10d. — 17s. 6d.
Shaving Brushes . .	3s. 9d. — 55s. 0d.
Nail Brushes . . .	1s. 11d. — 3s. 11d.



All Leading Sundriesmen
are regular stockists



- ★ **SELF-ADJUSTING**
One size fits all hair styles.
- ★ **IT HOLDS THE CURLS**
The Elastic Panels keep them firmly in place.
- ★ **NYLON FOR HARD WEAR**
The P5 Outlasts many ordinary Hairnets.
It is beautifully soft and can be WASHED REPEATEDLY.
- ★ **ATTRACTIVE DISPLAY**



The P5 in transparent envelopes are packed 1 dozen in striking Counter Display Boxes in either single or assorted shades. (Apple, Peach, Sky.)

Price to retail trade, 25/- per unit, plus tax.

Price to public of P5, 3/11 including tax.



P5 NYLON
PANELLED
sleeping net

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soluble, neutral and palatable
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GREAT DIFFICULTY has hitherto been met in providing soluble aspirin in tablet form which will remain stable under ordinary conditions of storage. This difficulty has now been overcome.

Disprin has all the valuable qualities of calcium aspirin — analgesic, antipyretic and anti-rheumatic. Since it is soluble, it is more rapidly absorbed and consequently more speedy in its clinical effect. Since it presents aspirin in the form of its calcium salt, it is more sedative. Moreover, it does not act as an irritant to the gastric mucosa, because, unlike ordinary aspirin, it is soluble. Disprin tablets readily dissolve in water to form a substantially neutral, palatable solution.



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free of Purchase Tax.

Clinical sample and literature
supplied on application.

STABLE, PALATABLE, NEUTRAL.
SOLUBLE CALCIUM ASPIRIN

W. KITT & COLMAN LTD., HULL AND LONDON (PHARMACEUTICAL DEPT., HULL) ..

THE MOST SUCCESSFUL PERFUME Over 301,000* women be asking for more

BARELY six weeks ago, the great RIMMEL national advertising campaign was launched, featuring an offer of a TRIAL PHIAL of RIMMEL 'Garden of Flowers' Perfume. Today, these samples of RIMMEL'S genuine French imported perfumes are in the hands of over 301,000 women throughout the country (the number is increasing daily) and many thousands of them are already wanting more of their particular 'Garden of Flowers' fragrance. Women in your district will be coming to you for Britain's most popular perfume series. Be sure you can meet their certain demand

ORDER NOW FROM YOUR USUAL WHOLESALER

—or direct from Rimmel Distributors Ltd., North Row, Park Lane London, W.1—and let your customers know that you sell RIMMEL 'Garden of Flowers' Perfume by displaying the lovely Presentation Boxes in your windows and on your counter



ADVERTISING CAMPAIGN FOR YEARS!

will

GARDEN OF FLOWERS

Rimmel

BY

OF PARIS

the number of people who have seen a TRIAL FILM at the time of going to press. Advertisements appearing after this date will bring scores of thousands more applications.

RIMMEL advertisements are appearing in these, and many other, leading national and provincial newspapers, as well as in women's magazines.



AMAMI



ACTUAL
SIZE

FIRST NEWS

Think of Shampoos and the name you *first* think of is AMAMI. Now, after years of continuous, extensive research and thousands of test applications, AMAMI launches its Cream Shampoo—rightly claimed as the Cream of Cream Shampoos.

Once a woman has used AMAMI Cream Shampoo, she will *always* use it because the lather-producing powers and stability of the lather of this Cream are far above those of *any* other Cream Shampoo!

So order today. Put the display material on your counter and see the sales—and your profit—on this new AMAMI Product grow before your eyes.

SPECIAL DISPLAY DISCOUNTS

SPECIAL introductory offer for WINDOW DISPLAY, for which striking material is now available: DISCOUNTS of 5% on orders of 3 dozen up to 6 dozen and 10% on orders for 6 dozen or over.

RETAIL price: 1/10 per tube, including tax. TRADE: 12/- per dozen, net, plus tax.

Millions of Amami Fans—

creates the cream of cream shampoos



CONTAINS
LANOLIN

will spread the News!

News from **DALMAS** of Leicester

New waterproof adhesive strapping

Supplies increased to meet heavy demand

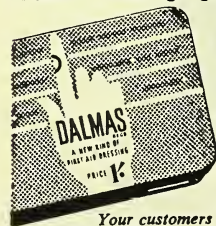
Demand is already heavy for Dalmas Strapping, a new plastic adhesive that has the great advantage of being absolutely *waterproof*. Because of this, supplies have been greatly increased.

Especially suitable for tiny cuts, sore places, torn finger nails, etc., Dalmas Strapping gives 100% protection against water, dirt, grease and acid. In particular, it is ideal wherever a bandage would be awkward. Because Dalmas Strapping stretches *all* ways, edges stick tight while allowing free movement of joints and muscles.

Dalmas Strapping is skin-coloured, hardly shows. Attractive sell-outs contain twelve 1/- spools, each 1 inch by 1 yard, price 8/-; or 24 spools, price 16/-. Special quantity discounts. Also in 2" and 3" widths. **PLACE YOUR ORDER NOW!**

Dalmas First-Aid Dressings

Dalmas, a *waterproof* plastic dressing, provides a totally new method of protecting cuts and minor wounds. Like Dalmas Strapping, Dalmas First-Aid Dressings give complete protection against water, dirt, grease, acid—you can actually *wash with them on!* Edges stick tight, can't fray, can't catch in clothes. Dalmas lessens infection risk, promotes safe and easy healing.



Your customers will look for this blue and white box.

Blue-and-white counter sell-outs containing three dozen 1/- boxes, price 8/- per dozen.



Dalmas Strapping stretches all ways, is ideal for places where a bandage would be awkward

DALMAS BOIL PLASTERS

A new *waterproof* protective dressing for boils. Skin-coloured, hardly shows. Handy boxes, price 10d. retail, including tax.

DALMAS HEEL DRESSINGS

A *waterproof* dressing that is specially designed for sore and blistered heels. Handy boxes, price 1/- retail.

DALMAS FINGER-TIP DRESSINGS

A new *waterproof* adhesive protection for cracked, cut or sore finger-tips. Handy boxes, price 1/- retail.

A. de St. Dalmas & Co. Ltd
Leicester (Leicester 65261)

London Depot: 140-142 St. John St., E.C.
(Clerkenwell 3399)

Leeds Depot: 14 Neville Street
(Leeds 29764)

Scottish Agents: Robert Telford,
29 Waterloo Street, Glasgow, C.2
(Central 2716)

Easier to ask for

Easier to take

'Tabloid' 'Empirin' Compound with Codeine . . . widely prescribed for relief of pain when narcotics are undesirable . . . will in future be issued under the name 'CODEMPRIN.' Weights of the four active ingredients are unchanged, but the products themselves have been reduced in weight from 10.1 grains to 7.6 grains. 'CODEMPRIN' is very attractively packed, with cartons and labels matching those now used for 'Tabloid' Aspirin and 'Tabloid' 'Empirin' Compound. A bonus of 13 to the dozen will be given on orders of 3 dozen or over. List prices remain unaltered; bottle of 25, 2/3 plus 7d. tax; bottle of 100, 7/9 plus 1/11½ tax: dispensing pack of 500, 35/- tax free.

'CODEMPRIN' TRADE MARK

Acetylsalicylic Acid . . gr. 3½ Phenacetin . . gr. 2½ Caffeine . . gr. ½ Codeine . . gr. ½

'CODEMPRIN' TRADE MARK

Formerly supplied as 'TABLOID' 'EMPIRIN' COMPOUND WITH CODEINE

BRAND

TRADE MARK



BURROUGHS WELLCOME & CO. (The Wellcome Foundation Ltd.) **LONDON**

CORAMINE-ADENOSINE

TABLETS**AMPOULES****LIQUID**

20—6/-, 100—25/6

5—4/9

15 c.cm.—5/9, 100 c.cm.—24/6

Powerful coronary dilator, not affecting systemic blood pressure. Effective in all forms of coronary insufficiency. Angina pectoris, coronary thrombosis, cardiac asthma

CORAMINE-EPHEDRINE

TABLETS**AMPOULES****LIQUID**

20—4/6, 100—19/6

5—4/3

15 c.cm.—4/-, 100 c.cm.—19/6

Indicated in bronchial asthma, respiratory depression, post-operative bronchial complications

CORAMINE-CAFFEINE

TABLETS**AMPOULES****LIQUID**

20—4/6, 100—19/6

5—4/3

15 c.cm.—4/-, 100 c.cm.—19/6

Powerful central and peripheral stimulant of value in collapse, physical and mental exhaustion, convalescence, asthenia

Retail Discount 25%; exempt from purchase tax
("Coramine" is a registered trade mark)

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The



CHEMIST AND DRUGGIST

for RETAILER—WHOLESALE—MANUFACTURER

AUGUST 6, 1949

Published weekly at 28 Essex Street, Strand, London, W.C.2

Telephone: Central 6565 (10 lines). Telegrams: "Chemicus, Estrand, London."

S. copies 1/- each. Annual subscription, which includes *The Chemist and Druggist Diary and Year Book*, 30/-

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NEWS OF THE WEEK

Hospital Salary Negotiations.—The case submitted to the Industrial Court by the staff side of committee C of the Pharmaceutical Whitley Council is to be heard in London on August 15.

Advertisement Developments.—The first two-colour half-page advertisement to appear in a national newspaper since the end of the war was a $\frac{1}{2}$ -page insertion by Cussons, Sons & Co., Ltd., Kersal Vale, Manchester, 7, in the "Daily Express" on July 21.

Film Prices Decontrolled.—The Board of Trade announces that, from July 29, the Cinematograph Film (Maximum Prices) Order, 1946, the Photographic Film (Maximum Prices) Order, 1948, and the Cinematograph Film (Maximum Prices) (Amendment) Order, 1948, are revoked.

Statutory Committee Meeting.—The Pharmaceutical Society's Statutory Committee is to meet at 17 Bloomsbury Square, London, W.C.1, on August 10, at 3 p.m., "to consider information and evidence received by the Committee from

which it appears that a member of the Society was convicted of indecent assault."

National Insurance Contributions.—The Ministry of Health reminds employers that they should stamp employees' National Insurance cards as usual for any holiday week for which holiday pay of more than 20s. is paid.

Soap Order Re-enacted.—The Soap (Licensing of Manufacturers and Rationing) Order, 1949 (S.I., 1949, No. 973, H.M. Stationery Office, price threepence), re-enacts the corresponding 1948 Order, as amended, with amendments made necessary by the issue of new ration documents.

Scottish Research Grant.—Imperial Chemical Industries, Ltd., have made a seven-year grant of £2,500 a year, less tax, to the United College of St. Andrews University, Scotland. The grant is to assist in providing residential facilities for post-graduate research workers.

National Gardens Show.—Amongst the exhibitors at the National Gardens Show, Olympia, London, July 27 to August 5

were Boots Pure Drug Co., Ltd., Nottingham, and May & Baker, Ltd., Dagenham. Both laid emphasis on products for the control of pest and disease and selective weed-killers.

Review of Hospital Services.—The Central Health Services Council has appointed a committee to review the organisation of the hospital services under the National Health Service Act, 1946, and to frame detailed terms of reference for a committee on the administration of individual hospitals. The committee will be under the chairmanship of Mr. F. Messer, C.B.E., J.P., M.P.

London N.H.S. Figures.—At a meeting of the London Executive Council on July 28, the following statistics were given for the first year's working of the National Health Service in London:—Total payments, £8,648,185 (administration cost 1.25 per cent). Medical services, £2,627,614; dental services, £2,300,532; ophthalmic services, £1,693,767; pharmaceutical services £1,918,188; administration, £108,084.

Price Control Changes.—The price control on vacuum flasks has been removed. A revised list of price-controlled articles which came into force July 29 includes drugs, surgical dressings and appliances, disinfectants, turpentine, toilet-soap, invalids' and infants' foods but not "medicines made up by retail chemists, hospitals, etc." The description of photographic goods subject to price control has been revised. The changes are among a number effected by S.I., 1949, No. 1399.

Repeat Prescriptions Under N.H.S.—A letter from the Ministry of Health, sent recently to Executive Councils, states that the Minister has decided to accept the advice of the Standing Medical and Pharmaceutical Advisory Committees that "a doctor should be able in appropriate cases to avoid unnecessary calls on his time by giving to persons on his list two or more prescriptions or carbon copies of the same prescription (all bearing original signatures) dated at suitable intervals." The Committees advise that the type of case in which this may be done is that in which the doctor considers that the patient's treatment should continue for longer than the first supply of medicine will last and does not think it necessary to see the patient again or for a considerable period. The Minister considers that the arrangement may properly apply also to dressings

required in similar circumstances (e.g., chronic patients), and that the procedure does not necessitate any amendment to terms of service. [The prohibition of "11 Mist." in that paragraph is not affected.] A notice (E.C.N. 26) explaining the arrangements is being prepared for issue by Executive Councils to doctors and chemists in each area, and copies of the letter are being sent to local Medical and Pharmaceutical Committees.

LOCAL NEWS

Pharmacists' Complaint Against I.L.S. Council.—The Leeds Executive Council recently discussed a complaint by a pharmacist alleging that a medical practitioner directed his patients to a particular pharmacist for the dispensing of the National Health prescriptions. It was decided to appoint a subcommittee to investigate the allegation.

Warwickshire Branch Outing.—Over 100 members and friends of the Coventry and Warwickshire Branch of the Pharmaceutical Society visited Worcester recently where they had tea and a trip on the river. At tea an address was given by Mr. W. E. Bales. The return journey was made via Evesham and Stratford-on-Avon. A collection was taken for the Society's Benevolent Fund.

N.H.S. in Liverpool.—At a meeting of the Liverpool Executive Council on July 28, the chairman reviewed the first year's working of the National Health Service in Liverpool and gave the following statistics:—Total expenditure, £2,210,000 (administration being less than 1½ per cent.); contracting chemists, 2; chemists' shops, 280; prescriptions dispensed, approximately 5,000,000; cost of prescriptions, £608,000.

Nottingham University Appeal.—Nottingham Branch of the Pharmaceutical Society in collaboration with adjacent branches is appealing for funds for general expansion and improvement of the pharmacy department of Nottingham University. The scheme is being organised in response to an appeal by the university for £1 million towards an endowment fund. Subscription forms may be obtained from Mr. W. E. Newbold, 2 Chapel Lane, Nottingham.

Abuse of Late Service Alleged.—At a meeting of Wolverhampton Executive Council on July 15 the chairman (Alfred W. Lawley) said chemists were be-

abled late at night with requests for medicines that were not urgent. The only prescriptions which it was reasonable to dispense after normal closing hours were those marked "urgent" by the doctor. Pharmacists had made adequate arrangements to deal with such urgent prescriptions, he said.

Chemists' Golf Matches.—In a competition played by the Edinburgh Chemists' Golf Club at Kilspey, recently, the Claret trophy was won by Mr. A. Nicolson (24) 68. In the competition for the Bon Astley prize, the winner was Mr. V. S. Thomson (12), 69, with Mr. R. S. Thomson (7) 70, runner-up—A meeting of the London Chemists' Golfing Society took place at Hampton, Middlesex, on July 14. A medal round for the Arthur H. Cox prize was won by Mr. R. Poole (7), 72 (under the scratch score of the course), and a tie with Mr. F. E. Lever (17) had been decided on the last nine holes. Other scores were:—Mr. C. H. Maile (6), 75; Mr. A. H. Newcombe (6), 77; Mr. G. H. Hankinson (7), 77; Mr. F. G. Wells (16), 77. In a bogey competition held on the same day for the Jubilee vase (entrance fee being donated to the Benevolent Fund of the Pharmaceutical Society) the leading scores were:—Mr. A. H. Newcombe (6), 10; Mr. R. Poole (7), all square; Mr. C. H. Maile (6), 2 down; Mr. F. E. Lever (12) 2 down; Mr. R. W. Lester (13), 3 down; Mr. G. H. Hankinson (7), 3 down. The Northumberland and Durham Chemists' Golfing Society held its annual captain's day at Brancepeth Castle, co. Durham, on July 17 when thirty members were present. A strokes competition was held for the captain's prize and Bayer tankard and two-ball foursomes against Bay for prizes presented by Scott & Turner Ltd., and Sangers, Ltd. Winners were:—Captain's prize, Mr. D. Cook, V. Hartlepool; Bayer tankard, Mr. E. Beer, North Shields; Scott & Turner prize, Messrs. A. Riley, Sunderland, and C. Iredale, Dunston; Sangers prize, Messrs. I. Duncan, North Shields, and V. Hardy, Sunderland.—In a competition held recently by members of the Bradford Branch of the Pharmaceutical Society, Mr. J. Whitaker (14), 69, received a silver trophy given by The British Drug Houses, Ltd., and an electric angle-lamp given by Northern Pharmaceuticals, Ltd. Mr. E. Finson (17), 71, received a tankard, also presented by Northern Pharmaceuticals,

IRISH NEWS

New Dublin Dispensary.—A new dispensary opened in Lower Mount Street by the Dublin Board of Health includes a compounding section under the direction of Mr. James W. O'Gorman, M.P.S.I.

Annual Closings.—The offices of the Pharmaceutical Society of Ireland, 67 Lower Mount Street, Dublin, and of the Irish Drug Association, at 27 Merrion Square, Dublin, will be closed during August.

Examination Successes.—Of ninety-three candidates for the July Licence examination of the Pharmaceutical Society of Ireland the following were successful: G. F. Alley, D. Boylan, W. J. Burke, J. J. Campbell, Joan Carty, P. P. Cassidy, N. Farrell, J. D. Hallahan, Ellen P. Hunt, Josephine Jones, Anne Lacy, Catherine F. Leahy, J. H. Magee, Mary A. McDermott, Catherine M. McLoughlin, Teresa O'Connor, Teresa M. O'Connor, Patricia M. O'Farrell, Maureen T. O'Driscoll, J. C. Ryan and P. Sammon.

Assistants' Examination Results.—Of the forty-four candidates who sat for the July Assistants' examination of the Pharmaceutical Society of Ireland the following passed: Robert Costigan, Margaret M. Fallon, Thomas F. Gannon, Mary G. Gilvarry, Margaret J. Gibbons, Mary M. Gibbons, Catherine P. Hannon, Fionan Harty, Beatrice Hegarty, Thomas B. Higgins, Blatnait Killoran, Charles Mernagh, Michael Murray, Norah C. McNally, Margaret McSweeney, Una C. O'Connor, Nora M. O'Mahony, R. C. O'Higgins, James F. O'Reilly, Mary B. Quille, Eleanor Ryan, Patrick J. Salmon.

OVERSEAS NEWS

Synthetic Surgical Thread.—A new flexible suture thread, based on a synthetic fibre, has been developed in the French zone of Germany by Badische Anilin-und Sodafabrik, Ludwigshafen.

Indian Standards Bulletin.—The Indian Standards Institution, P Block, Raisina Road, New Delhi, has issued a new quarterly journal entitled "I.S.I. Bulletin." The first number contains thirty-six pages.

British Chemicals for the Argentine.—Under a new five-year trade agreement the Argentine Republic will receive from the United Kingdom chemicals valued at approximately £5.65 millions in the first year against £3.65 millions in 1948.

NEW COMPANIES

HUGHES & LLOYD (CHEMISTS), LTD. (P.C.).—Capital £1,000. To carry on the business of chemists and druggists, etc. John Hughes, M.P.S., and David J. Lloyd, M.P.S., directors. R.O.: The Golden Mortar, Llandyssul.

DUOSWAN CHEMICALS, LTD. (P.C.).—Capital £100. To carry on the business of manufacturers of and dealers in solvents, cleaning materials, soap, chemicals, drugs, etc. Anthony A. Aveline, director. R.O.: 7 Abercorn Mews, London, N.W.8.

FRASER BURMEN, LTD. (P.C.).—Capital £1,000. To carry on the business of chemists, druggists, etc. George H. Hannam, M.P.S., and Beverley J. Hannam, directors. R.O.: 102A Lumley Road, Skegness.

BONNIKEN & CRONK, LTD. (P.C.).—Capital £1,000. To carry on the business of manufacturing, wholesale and retail chemists and druggists, etc. John G. Cronk and Douglas H. Cronk, directors. R.O.: 26 Waterloo Road, Epsom, Surrey.

VINCENT J. DILWORTH, LTD. (P.C.).—Capital £1,000. To carry on the business of chemists and druggists, opticians, etc. First directors are not named. A. W. Caven, secretary. R.O.: 19 Williamson Street, Liverpool, 1.

IVA FUR PUFFS, LTD. (P.C.).—Capital £5,000. To carry on the business of manufacturers and traders in fur toilet and powder puffs, etc. Arthur W. Pitts and William C. H. Johnson, directors. R.O.: 17 Grape Street, High Holborn, London, W.C.2.

H. W. SALISBURY, LTD. (P.C.).—Registered in Dublin. Capital £500. To carry on the business of pharmaceutical chemists, druggists, photographic dealers, etc. First directors are not named. Subscribers' address: 6 Westmoreland Street, Dublin.

G. H. HAWKINS & SON, LTD. (P.C.).—Capital £12,000. To acquire the business of a chemist carried on by Gilbert H. Hawkins, M.P.S., at Minehead and Porlock, Somerset. Gilbert H. Hawkins, M.P.S., director. R.O.: 17 The Parade, Minehead, Somerset.

ROBINSON (NEWTON HEATH), LTD. (P.C.).—Capital £5,000. To carry on the business of manufacturers and importers of, and dealers in, chemical and pharmaceutical preparations, etc. First directors are to be appointed. R.O.: Dudley Hill Chemical Works, Dudley Hill, Bradford.

G. & P. (PROPRIETARIES), LTD. (P.C.).—Capital £10,000. To acquire the business of the Imperial Steel Co. carried on in Sunderland; and to carry on the business of manufacturers, buyers and distributors of detergent tablets, chemicals and chemical products, acids, disinfectants, etc. William A. Green and Robert P. directors. R.O.: Sunnyside Chambers, Thomas Street, Sunderland.

JOHN BEITH (ENGLAND), LTD. (P.C.).—Capital £1,000. To carry on the business of manufacturers of, and dealers in, chemicals, drugs, medicines, etc. Allied Alloys (Bradford), Ltd., may appoint directors; and John Beith & Co. (Ireland), Ltd., and John Beith (South Africa), Ltd., one director each. First directors are named. R.O.: 15 George Street, Mark Lane, London, E.C.4.

COCKER CHEMICAL CO., LTD. (P.C.).—Capital £550,000. To acquire the business of a chemical manufacturer carried on by William W. Cocker at Oswestry and Church, Lancs, as Dickinson & Son, and to enter into an agreement with the said William W. Cocker and Robert & Colman, Ltd. Henry A. Proctor, William W. Cocker, Eric Cocker, Arnold Clemenston, Frank Turner, George Gladdon, James B. Upton, Geoffrey Samuelson, Edward H. Hall and Cecil Slack, directors. R.O.: Kingston Works, Dansom Lane, Hull.

Company News

HIRST BROOKE & HIRST, LTD.—Mr. S. Southon has joined the board.

E. M. DE SOUZA & Co., LTD.—Mr. C. K. Nair, U Khin Zaw and U Po Tin have been appointed directors of this new company. U Ba Thwe is acting as alternate director during Mr. L. Rutherford's absence on leave.

SANITAS TRUST, LTD.—A final dividend is recommended of 7½ per cent. making 12½ per cent. (the same) for the year ended March 31, plus a bonus of one ordinary share for each share held.

DISTILLERS Co., LTD.—Shareholders are to receive a 50 per cent bonus issued on the distribution of one new £1 ordinary share (to be subdivided into 4s. shares) for every £2 of stock held. The bonus will capitalise £7,512,923 of reserves.

TOPICAL REFLECTIONS

York Hospital Pharmacy

New York is sufficiently far from the United Kingdom to give the article of G.M." on a hospital pharmacy in that (p. 140) the additional interest of material for comparison. Every practising pharmacist likes to know how his counterpart in another country carries out pharmaceutical operations. One of the facts that stand out from the rest is that the training and equipment of the hospital pharmacist are not over-elaborate. This is evidence of planning, probably unexpected by our readers, is evidence of common sense. Over-elaboration, wherever it is found, hinders smooth working. It will be noticed that mixtures, still popular on this side of the Atlantic, are not ordered in the hospital, described, and that proprietary preparations comprise the majority of preparations. A committee of the American Pharmaceutical Association probably ensures that the preparations are of an "ethical" quality. The typing of labels is commendable and might with advantage be adopted as a rule in our own country. Measures regulated in fluid ounces and in mills should also be taken into use. I read with surprise that "little precaution is taken when preparing solutions of anti-infectives . . . though the pharmacy itself is air-conditioned and kept scrupulously clean." In the present state of knowledge of disinfection technique it seems desirable to be rigid, even meticulous, in the preparation of solutions for parenteral use and in handling materials for that purpose.

Lavoisier

The note on p. 151 drawing attention to the use of postage stamps containing portraits of scientists begins, appropriately, with the name of one of the most famous, Antoine Laurent Lavoisier (1743-94). Though in this country we are not likely to see our stamps varied with portraits of this kind, that is no reason why we should not be interested in such stamps issued in other countries. As every student knows, Lavoisier "rationalised" the aer vitriolicus, the cheele and the dephlogisticated air of Priestley, and named the gas oxygen. He was born and educated in Paris, where he obtained a degree in law, his father's profession.

His subjects of study also included physics, geology and chemistry, and the prospect of a legal career soon gave

place to a preference for science. In 1765 he made his first communication to the French Academy of Sciences, choosing gypsum as his subject; in the same year he was the runner-up in a competition for a scheme for lighting a large town, and was awarded a gold medal. Three years later he obtained a seat in the Academy; he was also given a post in the office of Ferme Générale, with duties that included visits to factories. At the age of twenty-eight he married a girl of fourteen; Mme. Lavoisier took an active part in his scientific work, assisting in experiments, translating relevant English communications, and drawing illustrations for her husband's treatise on chemistry. On the death of his father the appointment of Régisseur des Poudres was added to Lavoisier's other function.

A Busy Life

Lavoisier's official duties permitted him to devote one day in each week to scientific work; on other days he was in his laboratory from 6 to 9 a.m. and from 7 to 10 p.m. His growing reputation brought many distinguished visitors. Among them were Joseph Priestley, James Watt and Arthur Young. At the height of his career Lavoisier purchased a country estate and was admitted to the court of Louis XVI. The outbreak of the French Revolution did not at first make much change in his life. In 1790 he was nominated to the Assembly of Representatives of Commerce; among his colleagues were two pharmacists, one of whom joined him in studying rust in gun-barrels. Near the end of 1791 he was elected treasurer of the Academy of Sciences. His arrest took place in November 1793, and his execution in May 1794. It would be an over-simplification to describe Lavoisier as one of the martyrs of science. The fatal circumstance in his trial was that he had been engaged in collecting taxes under the old régime; however humanely his task may have been carried out, the fact that in the eyes of the revolutionary tribunal he was associated with the former system was enough to ensure the maximum penalty. Accordingly, his eminence as a man of science did not weigh with his judges. His widow was imprisoned for a time, but ultimately claimed and secured Lavoisier's papers and apparatus.

Xrayser

THE WEEK IN PARLIAMENT

By a Member of the Press Gallery, House of Commons

MR. HUGH GAITSKELL, Minister of Fuel and Power, announced in reply to MR. E. G. WILLIS on July 25 that the Government had decided to accept the main recommendation of the Mineral Development Committee that the minerals included in the terms of reference of the Committee should be brought under public ownership. The necessary legislation would be introduced in due course.

Resale Price Maintenance

MR. F. J. ERROLL asked the Minister of Labour on July 26 whether, in view of the Government's decision to adopt the recommendations of the Resale Price Maintenance Committee, and to endeavour to do away with existing collective systems of price protection of certain products sold in shops, he intended to take similar action to put an end to existing collective systems for protecting wages of the employees in the retail trade. "No," replied Mr. Ness Edwards (Parliamentary Secretary).

MR. ERROLL asked the President of the Board of Trade whether, in view of the fact that the Committee's report indicated that a large number of the organisations which gave evidence before that body were opposed to the recommendations made in the report, he would take steps to publish the evidence; and SIR WAVELL WAKEFIELD asked whether, as the Committee reported that evidence obtained from women's organisations revealed a preference by consumers for guaranteed products sold at fixed prices, he would arrange to publish in full the evidence of these organisations before any final decisions were reached about the implementation of the Committee's proposals.

MR. EDWARDS replied that the report of the Committee described the evidence received. He did not think publication of the evidence in full was necessary to enable traders to give consideration to the report.

SIR THOMAS MOORE asked if, in view of Mr. Wilson's appeal for efficiency and economy in the distributive trades, he would give further consideration to the loss of efficiency that would result to producers in enforcing price maintenance of their goods if the system of collective enforcement of resale price maintenance were abo-

lished as advocated in the Committee's report. MR. EDWARDS saw no reason to believe that the abolition of collective resale price maintenance and the consequential increase in competition between traders would lead to loss of efficiency.

Medicine for Service Families

MR. NIALL MACPHERSON asked the Minister of Defence on July 27 why Service doctors at stations in Great Britain and Northern Ireland were not allowed to prescribe for wives and families of Service personnel registered with them on National Health Service forms, so that their patients might be able to obtain necessary medicines from local chemists free of charge instead of having to buy them when they were not available at the station dispensary, and whether he would arrange for Service doctors at stations in Great Britain and Northern Ireland with whom the wives and families of serving personnel were registered for Health Service purposes to be registered with the appropriate Executive Council as medical practitioners in respect of such patients.

MR. A. V. ALEXANDER: The participation of Service medical officers in the National Health Service would not be feasible, since the resulting division of responsibility would be bound to give rise both to administrative and disciplinary difficulties. They cannot, therefore, issue prescriptions on National Health Service forms. There is, however, no reason why dependants of Servicemen should have to pay for medicines prescribed by Service doctors since the Service Departments themselves meet the cost if such medicines cannot be supplied by a Service dispensary. I offered to look into any case in which this practice had not been followed.

Talc from Norway

MR. DOUGLAS MARSHALL asked the President of the Board of Trade on July 27 the value and quantity of Norwegian talc imported into the United Kingdom in the last convenient period, and the import duty upon it. MR. A. G. BOTTOMLEY (Secretary for Overseas Trade) replied that imports of talc from Norway in the first six months of this year were 2,367 tons valued at £17,240. Imports of talc were exempt from duty.

Spring Aids

MR. A. BLENKINSOP (Parliamentary Secretary, Ministry of Health) informed Mr. C. W. Williams on July 28 that about 3 per cent. of Medresco hearing aids delivered to distribution centres had been returned as faulty. Of the aids issued to patients in the first year, about 24 per cent. had come in for servicing or repair in England and Wales, but it was difficult to know how much of that figure represented original faults in the instruments.

Ophthalmicians Under N.H.S.

MR. A. BLENKINSOP told MR. BROUGHTON on July 28 that 5,622 ophthalmic ophthalmicians in England and Wales were now employed in providing optical treatment within the Health Service. The Ministry

was hoping for an increase in the numbers that would become available for the Service, and considered that, in general, the professional standard of ophthalmic opticians was high.

Cost of Private Patients' Medicines

MR. H. D. HUGHES asked the Minister of Health on July 28 what would be the increased cost of allowing private patients to obtain, free of charge, drugs recommended by their doctor.

MR. BLENKINSOP: If the estimated annual rate of expenditure on the pharmaceutical services were proportionately increased in respect of the 5 per cent. of the population of England and Wales not on doctors' lists, the increase would amount to about £1 million.

PERSONALITIES

MR. ERNEST RATCLIFFE, M.P.S., a secretary of whose pharmacy is illustrated on

p. 179, was apprenticed to Mr. Edward Jepson, Darwen, Lancs, and qualified in 1920 after study at the Royal Albert Memorial College (now the University College of the South-west) Exeter. He is a past-president and secretary of the Wembley Branch of the Pharmaceutical Society, and a past

secretary of the National Pharmaceutical Union Branch. He has been for many years a member of the Middlesex Pharmaceutical Committee. For the years 1938-39 Mr. Ratcliffe was a member of the Pharmaceutical Society's Committee of Inquiry.

MR. C. R. DUFFIN (chairman of the Leeds Branch of the Pharmaceutical Society) was presented (in his capacity as president of the Wakefield Chamber of Trade) to Princess Elizabeth and the Duke of Edinburgh during a Royal visit to Wakefield on July 27.

MESSRS. F. W. SHEPHERD and J. SANDERMAN have been reappointed chairman and secretary, respectively, to the Ophthalmic Services Committee of the Nottingham County and City Executive Council. Mr. Spaanderman has also been

appointed to a committee of the Council.

MR. HENRY B. MACKIE, B.Pharm., Ph.C., head of the School of Pharmacy, Brighton Technical College, who contributes an article on pharmaceutical education on p. 186, took his early training with the late Mr. W. F. Hay, Aberdeen (a one-time chairman of the North British Executive of the Pharmaceutical Society), qualifying as a chemist and druggist in 1911, and as a Pharmaceutical Chemist the following year. Before being appointed to his present post Mr. Mackie was for five years in control of the laboratory of St. Thomas's Hospital, London. He is a member of the Pharmacy and Pharmacognosy Committee of the British Pharmacopœia Commission, chairman of the pharmacy panel of the Pharmaceutical Society's board of examiners for England and Wales, and of the pharmacy subcommittee of the Society's Syllabus Committee. During the 1939-45 war he was associated with a scheme organised by Brighton and Hove Association of Pharmacy to ensure an emergency supply of pure water locally (see *C. & D.*, 1947.I.335).

COMING EVENTS**Wednesday, August 10**

LONDON PHARMACISTS' BRANCH, ASSOCIATION OF SCIENTIFIC WORKERS, 15 Half Moon Street, London, W.1, at 7 p.m. Business meeting.

BOLTON PHARMACEUTICAL ASSOCIATION. Coach trip to Biological Department of Evans' Medical Supplies, Ltd., Runcorn, and to Chester.

EDINBURGH CHEMISTS' GOLF CLUB. Competitions at Ratho Park for Pinkerton, Gibson trophy, and 4711 prizes.



BIRTH

O'MALLEY.—At St. George's nursing-home, Royston, Herts, on July 31, Sheila, the wife of Brian J. O'Malley, M.P.S., 83 Albany Road, London, S.E.5, of a daughter (Catherine).

DEATHS

CASSIDY.—At Whiston Hospital, Lancs, on July 23, Mrs. Phyllis Cassidy, wife of Mr. William Charles Cassidy, M.P.S., 8 Calgarth Road, Huyton, Lancs.

COCHRANE.—On July 16, Mr. Charles Stuart Cochrane, M.P.S., Gampaha, Callohill Road, Lenzie-by-Glasgow, aged sixty-two.

DENTON.—On July 19, Mr. John Gill Denton, M.P.S., 94 Northgate Street, Hartlepool. Mr. Denton qualified in 1896.

HARRINGTON.—At his home, Araglin, Cobh, co. Cork, on July 31, Sir Stanley Harrington, P.C., LL.D., aged ninety-four. Sir Stanley, one of the best known men in the drug trade in the South of Ireland, was the last remaining person on the separate register of Chemists and Druggists kept by the Pharmaceutical Society of Ireland (he was entered on the register on January 7, 1891, when he was in business at 80 Patrick Street, Cork). Subsequently he became chairman of the Cork Chemical & Drug Co., Ltd., with which he had many years' association. He was also a director of Harrington, Goodlass, Wall, Ltd., the Munster and Leinster Bank, the Cork Consumers Gas Co., Ltd., and T. Lyons, Ltd. A son of the late Mr. William Harrington of Cork, Sir Stanley was educated at Beaumont College, England, and later at Queen's College, Cork, where he graduated B.A. Only quite recently he was honoured by the College (now University College, Cork) as its oldest living graduate and his great public service to the University and Cork recognised by the conferring on him of an honorary LL.D. degree (conferred *in absentia* as Sir Stanley was ill and unable to be present). His knighthood dates from the visit to Ireland in 1907 of the then Prince of Wales. Already a Privy Councillor for Ireland at the time he was knighted, his many public offices have included the presidency of the Cork Incorporated Chamber of Shipping and Commerce, membership of the Board of National Education, the Senate of the National University, and the governing body of University College, Cork.

HEBDEN.—On June 30, Mr. John Heden, M.P.S., 21 Harcourt Road, Altham, Ches. Mr. Heden qualified in 1881.

HEPWORTH.—On July 20, Mr. Ray Hepworth, M.P.S., 39 Cambridge Road, Seven Kings, Essex, aged seventy.

HURST.—On July 18, Mr. William Stanley Hurst, M.P.S., 26 Alexandra Crescent, Ilkley, Yorks, aged forty-nine.

JONES.—On July 14, Thomas E. Jones, M.P.S., 64A Taff Street, Pontypool, Glam, aged sixty-six.

LAVEROCK.—In an Essex hospital recently, Mr. James Alexander Laverock, M.P.S., aged fifty-five. A native of Lymington, Mr. Laverock was educated locally and served his apprenticeship with late ex-Provost Raffan, Port Street, Liverpool, a period at Falkirk he removed to Tilbury, about thirty years ago to assist a chemist, whose business he eventually took over.

LLOYD.—At Southern Hospital, Liverpool, on June 11, Mrs. Ada Frances Lloyd, wife of Mr. Richard Edward Lloyd, M.P.S., Heatherlea, Baileys' Lane, Liverpool, aged seventy-eight.

MILROY.—On July 20, Mr. John Parnell Milroy, M.P.S., 34 Kingsmead, Upton, Chester, Ches, aged thirty-six.

WILLMOTT.—On July 16, Frank Willmott, 1 New Bath Road, Radstock, Somerset, aged seventy-six.

WILLS

MR. R. G. POSTLETHWAITE, M.P.S., Hawcoat Lane, Barrow-in-Furness, formerly of Morecambe, Lancs, left £7,290 (£7,290 net).

MR. W. J. WISDOM, 19A Chepstow Villas, London, W.11, for many years in the staff of Glaxo Laboratories, Greenford, left £3,449 (£3,267 net).

MR. A. W. CHARNLEY, retired pharmacist, 12 Heywood Street, Bury, Lancs, more than forty years in business in Bury, left £7,863 (£7,818 net).

MISS M. K. WALKER, retired pharmacist, 1213 Pollokshaws Road, Shawlands, Glasgow, formerly of Liverpool, left personal estate in England and Scotland valued at £6,825.

MR. H. G. H. JENNINGS, retired pharmacist, 54 Primrose Avenue, Fordhouse, Wolverhampton, and 15 Birchwood Road, Walsley, Penn, formerly of Tower Street, Worcester, left £723 (£686 net).

BRITISH PHARMACEUTICAL CONFERENCE

Science and Symposium Sessions

LES of papers to be read in the Science Sessions at the eighty-sixth meeting of the British Pharmaceutical Conference to be held at Blackpool on September 12, as follows:—

Tuesday morning, September 13

"THE ISOLATION AND IDENTIFICATION OF BEETLE FRAGMENTS FROM POWDERED VEGETABLE DRUGS," by Colin Neville.

"INDIAN HENBANE," by Betty Johnson and J. L. Forsdike.

"THE ACTIVE CONSTITUENTS OF VEGETABLE PURGATIVES CONTAINING THRAECENE DERIVATIVES. PART I.—COSIDES AND AGLYCONES," by J. W. Bairn.

"THE BIOLOGICAL ASSAY OF VEGETABLE PURGATIVES. PART I.—SENNA, FRUIT AND THEIR PREPARATIONS," by T. C. Lou.

"NOTES ON MICROBIOLOGICAL ASSAYS USING *Lactobacillus lactis* DORNER," by G. E. Shaw.

"THE GROWTH ACTIVITY FOR *Lactobacillus lactis* DORNER OF COMMERCIAL LIVER EXTRACTS," by G. E. Shaw.

"THE VITAMIN B₁₂ CONCENTRATION IN LIVER EXTRACTS," by W. F. J. Cuthbertson, Joan F. Lloyd, W. B. Emery and K. E. Lees.

Tuesday afternoon, September 13

"THE VARIATIONS IN COLOUR OF LIQUORICE EXTRACT OF LIQUORICE, B.P.," by H. Oakley and R. E. Stuckey.

"PENICILLIN FORMULATIONS: THE EFFICIENCY OF OILY INJECTIONS," by L. Davies and J. C. Floyd.

"WOOL ALCOHOLS.—PART I.—OBSERVATIONS ON CHANGES IN PHYSICAL AND CHEMICAL PROPERTIES IN WOOL ALCOHOLS AS A RESULT OF OXIDATION," by George S. Muirhead, Karl H. Oberberger, Donald E. Seymour and Donald Simonite.

"THE FORMATION OF METHYL ALCOHOL IN GALENICALS," by H. E. Jokes and H. K. Johnson.

"PARA-AMINOSALICYLIC ACID.—PART III.—SOME FURTHER STUDIES ON *in vitro* TUBERCULOSTATIC BEHAVIOUR OF PARA-AMINOSALICYLIC ACID AND RELATED COMPOUNDS," by David J. Drain, Charles L. Goodacre and D. E. Seyfour.

"PARA-AMINOSALICYLIC ACID.—

PART IV.—ATTEMPTS TO INDUCE RESISTANCE TO PARA-AMINOSALICYLIC ACID IN STRAINS OF *M. tuberculosis*," by Charles L. Goodacre and Donald E. Seymour.

"SOME ASPECTS OF THE PHARMACOLOGY OF *p*-AMINO SALICYLIC ACID," by E. M. Bavin.

Thursday afternoon, September 15

"SODIUM AND CALCIUM GLYCEROPHOSPHATES," by J. S. Toal and J. I. Phillips.

"THE SEPARATION AND IDENTIFICATION OF ERGOT ALKALOIDS BY PAPER-PARTITION CHROMATOGRAPHY," by G. E. Foster, Jean Macdonald and T. S. G. Jones.

"THE DETERMINATION OF BENZENE HEXACHLORIDE (HEXACHLOROCYCLOHEXANE) IN PHARMACEUTICAL PREPARATIONS," by W. H. C. Shaw.

"EFFECT OF THE SULPHONE GROUP IN HYPNOTICS," by F. Said and M. A. Ghamrawi.

Friday afternoon, September 16

"BACTERIAL SURVIVAL IN SYSTEMS OF LOW MOISTURE CONTENT. PART I.—ENUMERATION AND DISTRIBUTION OF ORGANISMS IN (SPRAY-) DRIED POWDERS," by Kenneth Bullock, Winifred G. Keepe and E. A. Rawlins.

"AN EXAMINATION OF PYROGEN FROM VARIOUS SOURCES," by David W. Wylie and J. P. Todd.

"PROTEIN IN MALTED PREPARATIONS," by F. Wokes and Chloe Klatzkin.

"FLUORIMETRIC AND MICROBIOLOGICAL ASSAYS OF RIBOFLAVINE IN MALTED PREPARATIONS," by F. Wokes, Chloe Klatzkin and F. W. Norris.

A limited number of galley proofs of most (though possibly not all) of the papers listed above will be available in advance of the meetings. Members who are attending the Conference and who would like to receive copies of galley proofs are asked to communicate with the Honorary General Secretaries of the Conference at 17 Bloomsbury Square, London, W.C.2, before August 25.

Friday morning, September 16

Symposium Session

The subject for discussion will be "THE STORAGE OF DRUGS AND MEDICINES." The opening speakers will be Dr. T. E. Wallis, Mr. L. H. Boardman and Mr. J. B. Lloyd. No galley proofs will be available of the contributions to be made by the opening speakers.

TRADE NOTES

Prices Reduced.—The prices of Radio-stoleum liquid and capsules were reduced on August 2 by the manufacturers, The British Drug Houses, Ltd., Graham Street, City Road, London, N.1.

Sole Agency. — Universal Brush Co., Ltd., Dallow Road, Luton, Beds, have been appointed sole selling agents in the United Kingdom for Nash Brushes, Ltd., Watford, specialists in the manufacture of factory brooms and industrial brushware.

Stocks Held by Wholesalers.—MacLennan Brand Products, Ltd., 105 Ritherdon Road, London, S.W.17, state that all wholesalers in the trade now hold stocks of a new size of Pheriban tonic tablets. The preparation is on the C.F. and P.A.T.A. lists.

Illustrated Catalogue. — The 1949 illustrated catalogue of chemists' sundries, surgical appliances, displays, optical and veterinary requisites, recently issued by S. Maw, Son & Sons, Ltd., Aldersgate House, Barnet, Herts, comprises 285 pages, with full index. A list of proprietaries is expected to be ready shortly.

Production per Man-hour.—In a sixteen-page booklet "A Challenge to British Industry," published by McGowan, Perry & Partners, consulting industrialists, 24 Birkdale Road, London, W.5, F. R. Bentley analyses many of the faults that have resulted in the low rate of production per man-hour that exists in many branches of industry today. Copies are available on request to the company.

Practical Beauty Hints.—A twenty-page booklet "Natural Loveliness the Yardley Way," recently produced by Yardley & Co., Ltd., 33 Old Bond Street, London, W.1, quotes from a manual used in training the company's beauty specialists and includes, in a pocket, four illustrated charts demonstrating home massage movements and a personal colour harmony guide.

Educational Books. — Announcements are made in this issue by the following publishers and booksellers. — BAILLIERE, TINDALL & COX, 7 Henrietta Street, London, W.C.2; W. & G. FOYLE, LTD., 119 Charing Cross Road, London, W.C.2; SIR ISAAC PITMAN & SONS, LTD., Parker Street, Kingsway, London, W.C.2; and POTTER & CLARKE, LTD., 60 Artillery Lane, London, E.1 (Potter's "Cyclopædia of Botanical Drugs").

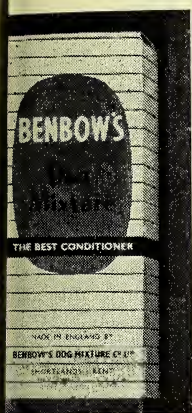
Cleaning Medicine Bottles.—With reduced allowance for bottles under National Health Service, the question of cleaning and sterilising reused medicine bottles becomes of importance. Mil Antiseptic, Ltd., 10 Brewery Road, London, N.7, suggest the use of Mil for this purpose and have drawn up a recommended method.

Price List of Ampoules.—A list of prices and prices of Sterule brand sterilising solutions in ampoules for injection (Martindale) with notes on their uses, has been issued by Savory & Moore, Ltd., 61 Wakebeck Street, London, W.1. Sections for bulk injection solutions and Sterules for inhalation are included. A copy of the list will be sent to any pharmacist on request.

Storing Corrosive Liquids. — Union Ebonite & Lorival, Ltd., London, W.1, are manufacturing ebonite tanks for the storage of corrosive materials. The tanks are at present made in two sizes: 14 x 14 x 19 in. (wall-thickness $\frac{5}{16}$ in., weight 19 lb., capacity 10 gall.); and 20 x 14 x 27 in. (wall-thickness $\frac{1}{2}$ in., weight 42 lb., capacity 20 gall.).

Vacuum-flask Producers.—Gibbs Manufacturing Co., Ltd., 12A Dartmouth Road, Paignton, Devon, recently took over the business of Lip-vac Sales, Ltd., 2 Rangemore Street, London, E.C.3, and are now the sole producers of Lip-vac vacuum flasks and jugs. They are reintroducing the Lip-vac non-drip vacuum flask (individually coloured, guaranteed and presented in a range of colours).

Mould-proof Cellulose Wrapping. — Andrew Mills, Ltd., 34 St. Andrew Road, London, E.17, direct attention to their mould-proof cellulose wadding for packing and other purposes. Samples of the wadding both treated and untreated were examined recently by the Forest Products Research Laboratory (Department of Scientific and Industrial Research). The method of testing was to hang squares of wadding from glass rods suspended over water in potato dishes. One series of squares was sprayed with a spore suspension of a mixture of moulds, while the other was left exposed for twelve hours to incidental contamination by airborne spores. No growth was found on the treated wadding but moulds developed on the untreated wadding that were subjected to spore suspension.



Package Re-design.—Benbow's dog mixture is now being issued by the makers, Benbow's Dog Mixture Co., Ltd., Shortlands, Kent, in cartons of new design, as illustrated.

Addition to Range.—Silvikrin Laboratories, Ltd. (sole agents: Pritchard and Constance (Manufacturing), Ltd., North Circular Road, London, N.W.10) have added to

their range of Silvikrin preparations a new product to be known as Silvikrin lotion with oil.

Films.—The British Medical Association announced recently that it was producing a film on the treatment of infections of the fingers and hands. The film is intended to provide a screen record of the best techniques of dealing with poisoned fingers, whitlows, abscesses, etc., for showing at meetings of medical practitioners in most parts of the country and in hospitals for both under-graduate and post-graduate audiences. The film is being prepared in the hand clinic of University College Hospital, London, and the cost is being borne by GLAXO LABORATORIES, LTD. — The BRITISH ROAD FEDERATION, 4A Bloomsbury Square, London, W.C.1, announces that its recently-completed film, "One Way Only," has been selected as being a representative documentary film for showing at the Venice Film Festival, 1949.

Veterinary Procaine Penicillin.—CURROUGHS WELLCOME & Co., 183 Euston Road, London, N.W.1, have added Wellcome brand procaine penicillin intramammary injection to their range of intramammary products for the treatment of bovine streptococcal mastitis. The product is issued in single-dose tubes, each containing 100,000 units of procaine penicillin with aluminium stearate in oil, in boxes of twelve tubes. Pharmacists are reminded that they may supply the product only to veterinary surgeons or on veterinary prescription.—EVANS MEDICAL SUPPLIES, LTD., Speke, Liverpool, 19, have

also introduced a procaine penicillin for intramammary injection in mastitis. The preparation is presented in nozzleed collapsible tubes, each containing 100,000 i.u. procaine salt of penicillin suspended in arachis oil with aluminium stearate, in boxes of twelve tubes. Further details of both manufacturers' preparations may be obtained from the makers.

Courses of Training.—The following educational institutions make announcements in this issue concerning courses for students in pharmacy and allied subjects. —*Intermediate examination of the Pharmaceutical Society:* Acton Technical College, London, W.3; Northern Polytechnic, London, N.7; Harris Institute, Preston; Huddersfield Technical College; Stockport College for Further Education. *Intermediate, Chemist and Druggist Qualifying, and B.Pharm. (London) examinations:* Bradford Technical College department of pharmacy; Brighton Technical College school of pharmacy; Merchant Venturers' Technical College, Bristol, department of pharmacy; Plymouth and Devonport Technical College school of pharmacy. *Intermediate and Chemist and Druggist Qualifying examinations:* Liverpool School of Pharmacy. Other courses are announced in this issue as follows:—*Assistant in Dispensing:* Society of Apothecaries of London. *Optics:* Worshipful Company of Spectacle Makers; Institute of Optical Science; and C. A. Scurr, M.P.S., F.B.O.A., Barnet, London, N. *Chiropody:* School of Surgical Chiropody, Leatherhead, Surrey.

BUSINESS CHANGES

Miss M. B. HOGAN has acquired the pharmacy at 136 North Strand, Dublin.

MR. F. R. FLATMAN has joined the staff of Dubarry Perfumery Co., Ltd., Goldstone Laboratories, Hove.

ALEX. ROBB & Co., LTD., makers of infant and invalid foods, have removed to Redmarley, Glos (Telephone: Bromesborough 262).

MR. KENNETH R. RUTTER, M.P.S., has acquired the business at 114 Camp Road, Leeds, 7, formerly carried on by E. J. Wilson & Co., Ltd.

BIDDLE, SAWYER & Co., LTD., have appointed Mr. R. Hopkins to their staff. Mr. Hopkins is to be responsible for the sale of botanicals and crude drugs on the home market.

PHARMACEUTICAL EMPLOYEES

THE first meeting of the reconstituted National Advisory Committee of the Association of Pharmaceutical Employees was held in London on July 24. Mr. W. S. Benjamin, M.P.S. (London area) was elected *Chairman*, and Mr. J. Gilmour, M.P.S. (national organiser), *Secretary*. The other members are as follows:—Messrs. H. Brown, M.P.S., Oldham, A. W. Freeman, M.P.S., Birmingham, D. Marsh, M.P.S., Bristol, W. P. T. Macpherson, M.P.S., Saltcoats, Scotland, and G. Warburton, M.P.S., Scunthorpe, Yorks. The unqualified dispensers are represented by Messrs. G. Cuthbertson, Newcastle-on-Tyne, and G. Edmondson, Newport, Mon. Mr. J. D. Hiscock (assistant general secretary, Union of Shop, Distributive and Allied Workers) is Union-executive officer on the committee. The functions of the committee are advisory but its decisions "will be of major importance to Union policy."

Salaries and Conditions

On salaries and conditions the following was accepted as a basis for the Union programme:—1. The establishment by joint agreement with the employers' organisations of adequate salaries based on the qualification, professional training and responsibility of the pharmacist; recognition of the principle of equality of payment to male and female pharmacists; establishment by joint agreement of adequate rates of pay for unqualified dispensers. 2. As a step towards the ultimate establishment of a forty-hour five-day week there should be laid down a normal working week of forty-four hours, exclusive of meal intervals. 3. Overtime to be paid at time-and-a-half rate for all hours worked in excess of the normal working week and to apply to all employees qualified and unqualified. Sunday and customary holiday duties at double-time rates.

Further details of the programme are to be drafted for the inauguration of an autumn campaign, and sections were advised to set up campaign committees.

Concerning possible amendment to the Shops Acts, the committee passed a resolution that "in no circumstances can there be any amendment to the existing Shops Act, 1912, modifying the statutory entitlement of the employee to the weekly half-holiday. [The committee] is satisfied that the needs of the pharmaceutical service

can be adequately met by instituting alternative weekly early closing days with its being necessary . . . to interfere with the legal right of the employee to one half-holiday in each week. It insists on the proper enforcement of the Shops Acts in cases where any attempt is made to deprive the employee of the weekly half-holiday. The National Advisory Committee further directs the secretary to give statement the widest publicity in order that there may be no possible doubt as to the attitude of the Union to this matter.

On the position of the employee pharmacist in National Health Service, the committee passed a resolution accepting "with great satisfaction the report given concerning Union activity in relation to the National Health Service Amendment Bill" and pledging "its wholehearted support in a continuance of the endeavour to secure participation by the employee pharmacist in the National Health Service Contract." Mr. A. W. Freeman, M.P. was recommended for a vacancy on the Trade Union Joint Consultative Committee.

A PHARMACIST'S ANTHOLOGY

I HAVE had as many remedies sent me for cramp and jaundice as would set up a quack doctor—three from Mrs. Plumm each better than the other—one at least from every gardener in the neighbourhood—besides all sorts of recommendations to go to Cheltenham, to Harrogate, to Jericho for aught I know. Now if there is one thing I detest more than another, it is a waiting place, unless a very pleasant party previously formed, when, as Tony Lumpkin says, "a gentleman may be in a concatenation." The most extraordinary recipe was that of my Highland piper, John Bruce, who spent a whole Sunday in selecting twelve stones from twelve south-running streams, with the purpose that I should sleep upon them, and be whole. I caused him to be told that the recipe was infallible, but that it was absolutely necessary to success that the stones should be wrapped up in the petticoat of a widow who had never wished to marry again; upon which the piper renounced all hope of completing the charm.

From a letter by Sir Walter Scott dated April 15, 1819.

POISONS LAW 1935-49

1. Recent Co-ordination and Consolidation

THE Poisons Rules, 1949, consolidate the amendments issued from time to time to the original Poisons Rules, dated December 21, 1935. Although the 1935 Rules are revoked, they are by no means superseded, as they persist in and on the basis of the 1949 Rules. In fact modifications made in the original Rules are of minor significance compared with the changes the 1935 Rules themselves made in the working of the Pharmacy and Poisons Act, 1933, which became fully operative on May 1, 1936.

Scope of Poisons Rules

Subject to a variety of restrictions (as prescribed by Rule) according to the status of the poison, the 1935 Poisons Rules extended the Act to all sellers or suppliers of substances within the scope of the Poisons List. The List comprised some 128 poisons or groups of poisons; by contrast, subsequent additions are covered by a hundred and dozen. At the outset "sellers" of poisons tried hard to get to know the number and nature of the poisons covered in medicine and commerce by the statutory Poisons List. The barbiturates may be cited to show how difficult the situation was. Official guidance proved sadly lacking, despite previous promises, and many problems of the list remained unclarified until the publication of the *C. & D. Poisons Guide* in 1936. The Guide has contributed more than any other factor to simplifying and overcoming poisons law doubts and difficulties. In 1949, the "Extended List of Poisons" of the Guide added its recently published Supplement to classify over 5,000 individual items.

The prime problem for the pharmacist under the poisons law is to determine the status of a poison in the form in which it is sold or supplied. The question may involve—without the help of the Guide—repeated cross-reference to Acts, Lists, Rules, Orders and other statutory or approved publications. Amendments to these ordinances inevitably give rise to a new set of problems, the extent of which cannot be foreseen. Thus, when the sulphonamides were included in the Fourth Schedule, the original group designation had to be amended to cover "substituted" sulphonamide groups. A later provision exempting external preparations caused

even poisons experts to fail in differentiating between "Ex S.4" ointments (which remain S.I.) and dressings (which are Ex S.I. also). Finally, Rule 12 had to be modified so that the prescription for a sulphonamide dusting powder need not specify the dose.

The consolidation by the Home Office, in the 1949 Poisons Rules, of the changes made between 1935 and 1949, leaves many other considerations to be assimilated in any system designed fully to co-ordinate poisons provisions past and present. For example, publication of the 1948 British Pharmacopoeia affected the statutory names of many poisons according to additions and deletions of monographs or changes in the names at the head of monographs. The *C. & D.* classification was devised to meet such diverse needs, and its conspicuous success has been proved beyond doubt by the fact that its classes remain unaltered to-day, despite the many modifications effected in the poisons provisions by official ordinances issued between 1935 and 1949. In fact, the *C. & D.* classes provide an ideal basis for reviewing alterations and additions during the past fourteen years and placing on record the reasons therefor.

By-effects of New Entries

Changes apparently minor may have major effects—a fact made evident by the numerous new entries the 1949 Supplement adds to the *C. & D. Poisons Guide*. The inherent simplicity of each entry in the Extended List, co-ordinating as it does all provisions, and supplying complete data for the sale of a specific poison, enables sellers of poisons to negotiate the complexities of a poisons law bristling with penalties for non-compliance. In general, this positive character of the *C. & D.* classes is in direct contrast with the indefiniteness of the legislation itself. For example, the primary subdivision of the Poisons List into Part I and Part II poisons is not without exceptions. There are many Part II poisons (e.g., organic mercury compounds for medicinal use) that can only be sold by authorised sellers of Part I poisons. The outlines of the legislation are made even more indefinite by the amendments to the Pharmacy and Poisons Act, 1933, incorporated in the Pharmacy and Medicines

Act, 1941, which makes a distinction—via Part I poisons—between pharmacy proper (subject to supervision by a registered pharmacist) and the selling of drugs excluding medicinal poisons (outside such personal control). The concession resulted from pressure in Parliament by the Co-operative Societies, but many other authorised sellers have been compelled to carry on branch businesses as “drug stores” through lack of qualified managers. The prestige of the pharmacist, both

employer and employee, is bound up in the provisions relating to Part I poisons as these form the cornerstone in the structure of control over the supply of poisons to the public. The D.D. and Schedule restrictions strengthen the restriction on pharmacists, as authorised sellers, of Part I poisons. The future of pharmacists has been secured and enhanced by the responsibility placed upon them under poisons laws and the manner in which they have fulfilled their onerous duties.

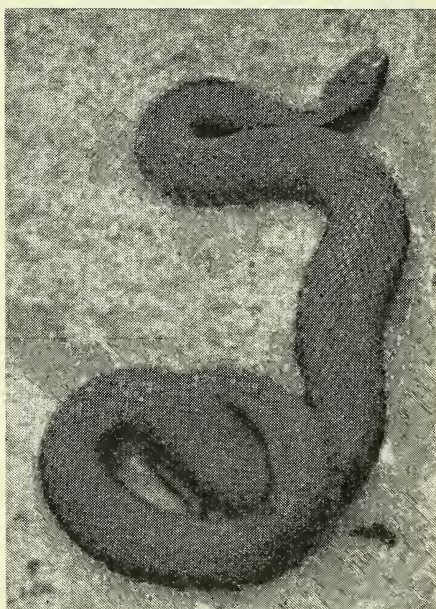
SNAKE BITE IN BRITAIN

OF the three snakes found in Britain, the grass snake, the smooth snake, and the adder or northern viper (*Vipera berus*), only the last named is venomous. The characteristic dark zig-zag pattern down the back of the adder is not always well-defined, while the ground

children. High summer is the usual time for cases of snake-bite to be reported, and pharmacists should be aware of the nature of the injury and the form of treatment adopted.

For the routine treatment of snake-bite the Pasteur Institute, Paris, prepares five types of antivenom serums which are specific for the principal types of snake venom. The type suitable for venoms occurring in European snakes (Antivenomous serum E.R.) is packed in vials or 10-ml. ampoules in injecting containers. The serum retains full potency for five years. The ordinary dose, for children or adults is 10 mls. hypodermic or, if treatment is delayed some hours, intravenous injection. Injections may be repeated, if necessary, without danger, and the serum may also be used in treatment of venomous bites of domestic animals.

Three cases of snake-bite from the English adder were recorded in 1944 (“British Medical Journal,” 1944.II.1223 and 1945.I.223). The first two cases—both of 12 years and 14 years—were unusual in that both patients were bitten by the same 24 in. snake. The younger boy caught hold of the snake, which bit him, and dropped it, whereupon the second boy caught hold of the snake and was bitten. The younger boy vomited immediately and was found twenty minutes later by his schoolmaster, who stated that he was pale and drowsy, unable to walk, and complained of sore throat, pain in the abdomen and feet, and great thirst. The schoolmaster incised the bite with a penknife but little blood flowed and it clotted immediately. On admission to hospital the boy was in a condition of extreme shock and the injured arm was very swollen, shiny and grey-blue in colour. His temperature was subnormal and his respiration shallow. Two days after the bite, 10 mls. of an



Adder (*Vipera berus*), dark variety.

colour of the skin varies through cream, brown shades, grey, and olive green to (occasionally) black. Fully-developed adders rarely exceed 2 ft. 3 in. in length. The bite of the snake, though seldom fatal, is painful, and can be serious in young

venous serum was given intramuscularly. The boy was detained in hospital for two days.

The elder boy developed no symptoms until 1½ hours after being bitten, possibly because another boy promptly sucked the wound and applied a ligature. Hospital treatment included incision under anaesthesia and application of a potassium permanganate dressing. He was well four days later.

The third victim, an eleven-year-old girl, was also bitten on the hand. Similar symptoms developed and the emergency

Emergency treatment of snake-bite includes ligature of the bitten limb. The ligature should be applied tightly as close as possible to the bite, and between the bite and the root of the limb. Free bleeding should be encouraged in order to obtain ample washing with blood. The Pasteur Institute advises irrigation with a fresh solution of chloride of lime (chloride of lime, 1 gm.; distilled water, 60 mls), or with a 1 per cent. solution of gold chloride, to neutralise any venom remaining in the wound. A simple antiseptic dressing may then be applied.

The bitten part should not be cauterised, either with a hot iron or with chemicals, and sal volatile or alcoholic stimulants should not be administered.



Gentlemen, if there is anything you wish to know about poison, I'll be only too willing to help."

By courtesy, "Natal Mercury."

tment included ligature and incision, together with application of potassium permanganate (crystals) in the wound, and a dressing of saturated magnesium sulphate solution. The usual treatment for shock (ketamide injections) was followed. After the child was transferred to hospital, the memorandum of the case records the difficulty of obtaining antivenom serum—which at that date had to be obtained from the Pasteur Institute in Algiers. The condition of the patient was critical and dangerous for the twenty-four hours after the bite, but the local and general condition improved markedly after intramuscular injection of the 5-mil dose of serum. According to Ministry of Health records, which date from 1938, no deaths have occurred in the United Kingdom since then.

IRISH DRUG ASSOCIATION

MR. J. J. ROCHE (president) was in the chair at the July meeting of the committee of the Irish Drug Association. The committee considered and deferred for future discussion a proposal that future applicants for membership of the Association should, before being admitted to membership, comply with certain standards of premises, interior layout and fittings, and stock carried. To help members of the committee from the provinces it was decided to alter the meeting day to Tuesday, the next meeting being fixed for September 6. Members were again reminded not to reduce retail prices until officially advised through the I.D.A. Cases, it was stated, had recently come to notice where incorrect retail prices had been charged through mistakes by employees. The attention of assistants should therefore be directed to the need for care in quoting retail prices and prices for prescriptions. It was decided not to include in the price list any toilet soaps or shaving sticks or creams that did not show a profit margin of 33½ per cent. The following have been added to the approved lists: Brand's foods and essence of beef; calves' foot jelly; Nylex shorthead and longhead nylon brushes; Scott's baby cereals; and Ratoids. New members elected were Miss E. B. Ryan, M.P.S.I., Mountown Pharmacy, Mountown, Dun Laoghaire; Mr. J. D. O'Byrne, M.P.S.I., Medical Hall, Lower Magazine Road, Cork; the Treaty Pharmacy, Thomond Gate, Limerick; Gilna & Co., Ltd., Medical Hall, Kinvara, co. Galway; and Mr. E. P. Hughes, M.P.S.I., 5 Windmill Road, Crumlin, Dublin



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The Editor would appreciate information
about suppliers of the following items:

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Haupta tablets
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The CHEMIST AND DRUGGIST

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CLII AUGUST 6, 1949 No. 3624

Higher Education: How It Works Out

Many members of the Pharmaceutical Society are in doubt about the profound changes brought about by the new educational scheme introduced by the Council in February 1948, they should study the curricula of the various training establishments in pharmacy, a skeleton summary of which is given on other pages of this issue. Most noticeable of all, perhaps, is that in the School of Pharmacy, University of London—the training institution founded by the Society in 1842 and surrendered to the University only last year—it is not possible to enrol for a course for any of the Society's qualifications (i.e., either the shortly-to-be-superseded Chemist and Druggist or the soon-to-be-the-only-status-to-qualification, the Pharmaceutical Chemist). Even an ordinary Bachelor of Pharmacy degree is considered an insufficient target. No students are being accepted unless they are prepared to take the B.Arm. (Hons.) degree.

But if this fact illustrates educational trends at their most concentrated, similar tendencies are discernible at other schools and colleges. Obviously no school is going so far out of its way to cater for those ambitious students who are content at the juncture in pharmacy's development to enrol only for the Chemist and Druggist examination. As might have been expected, intending Ph.C's. are being widely catered for, but everywhere pressure is being exercised on students to take a degree.

From an academic point of view this is not to be wondered at, since a principal of a college would be less than human if he did not look for successes to inscribe on his "roll of honour." Nor is it difficult to understand that a student should readily perceive the advantage, by making a slight extra effort, of finishing up with degree status, in possession of which he can readily secure the right to practise by simply passing an additional test in forensic pharmacy and undergoing a year's practical work.

Our concern is rather with what the effect will be upon recruitment into pharmacy as it is practised under the National Health Service. Like Lear's young man of Coblenz, who

"Went in one prance

From Turkey to France."

the students of today may overleap pharmacy proper into research, development, manufacture or teaching. The dilemma is that, great as are the forward strides that industry is making today, it can never accommodate in those fields—at any rate at commensurate salaries—all who undergo pharmaceutical training. Yet persons who have benefited by a University education have generally, in the past, found a shop career hard to face or to accept. There have been exceptions, of course, and many of the pharmacy teachers whose influence has been thrown on the side of the new educational arrangements believe that that disinclination to accept conditions in shops, or even in hospitals, will be less of a factor in the future. It still remains to be seen whether those hopes are well-founded, but in the meantime one wonders whether the tendencies we are witnessing were what the Society's president was thinking of when he urged "education for life and not for examinations." To us the present state of affairs seems to be developing into a Gilbertian situation in which all are admirals and none is left to do the work of the ship.

For the moment, the number of entrants into the profession is fairly good, and some of the schools and colleges whose facilities are reviewed on other pages report full bookings.

Rent Control Under the 1949 Act—2

THE charging of premiums is affected in important ways by the Landlord and Tenant (Rent Control) Act, 1949, an outline of which was given in the first article in this short series (*C. & D.*, July 23, p. 113).

Under the previous law, the restrictions imposed by the Rent Acts on the charging of premiums were not absolute. A landlord was entitled to charge a premium if the tenancy granted was for a period of fourteen years or more. A tenant, though he could not charge a premium if he were subletting the premises for a period of less than fourteen years, was not prevented from charging a premium if he was assigning his tenancy, that is, transferring the whole of his interest in it. Under the new Act, premiums may not even be charged in those circumstances. The prohibition came into operation on March 25 1949, though the Act itself did not come into force until June 22. Under agreements made between March 25 and June 2, however, it is open to either party, if he so desires, to avoid any agreement providing for the payment of a premium. If the agreement is in fact executed, the clauses as to payment of a premium are of no effect. The landlord is not entitled to call upon the tenant to pay the premium, and the tenant, if he has already paid it, is entitled to a refund.

It is not open to a landlord to get round the prohibitions by requiring the tenant to purchase furniture, fittings or other articles, because the excess, if the price charged is unreasonable, is treated as premium and thus recoverable by the tenant. Asking for premiums when there is no entitlement to do so also involves the risk of prosecution. If, however, furniture, fittings, or other articles are required to be purchased by the prospective tenant, the landlord may, under the new Act, be required to make a statutory statement of details of the articles and of the prices asked. Not to comply with a request for the statement involves risk of prosecution.

Although premiums are prohibited, a tenant who is assigning his tenancy is not debarred from requiring, from the person

to whom he is transferring it, a payment in respect of any rates or outgoings which may have already discharged, so far that payment relates to any period subsequent to the date of the assignment. It is also legal to require payment of an expenditure borne by the assigning tenant in the execution of structural alterations or improvements to landlord's fixtures, and the goodwill of a business that may be transferred at the same time as the lease, provided that the sum charged for the goodwill is reasonable.

The Act deals expressly with the case in which a premium may lawfully have been paid on the grant of a lease before the material date (for this purpose it is March 25, 1949). The tenant may recover himself for a proportionate part of the premium that he has paid in the past, but cannot, generally speaking, recover anything from the landlord himself. His only remedy is to pass on to the person to whom he may be assigning his tenancy the proportionate part of the premium.

How may the amount that he may transfer be calculated? First, one must ascertain the full length of the period of the tenancy which was originally granted and spread the premium evenly over that period. If the tenancy was for more than seven years, the actual length of the tenancy is taken for the purpose. If, on the other hand, the tenancy was for seven years or less, or was a yearly, quarterly, monthly or weekly tenancy, the period of the tenancy is taken as being seven years. Having thus ascertained the appropriate portion of the premium for each period of the tenancy which rent becomes payable, whether yearly, quarterly, monthly or weekly, it is next necessary to ascertain how much longer the tenancy will have to run from the date of the assignment, and the proportionate part of the premium for the remaining period of the tenancy which is being assigned. Thus, if the original tenancy was for fifteen years, a premium of £1,500 was charged and the rent was payable quarterly, the premium, when evenly spread over the whole of the fifteen years, works out at £100 per annum or £25 per quarter.

tenancy had, say, three years more to run before it expired, and the tenant was assigning those three years, he could lawfully require the new tenant who was buying the lease from him to pay him £300 (£100 a year for each of the three remaining years of the tenancy).

A tenant who wishes to recover any part of the premium paid on a first tenancy granted after September 1, 1939, must apply to the Tribunal. The method of recovery is by deduction of the appropriate portion of the premium from the rent. If, however, the original landlord has sold the property, and the sale has taken place before March 25, 1949, the tenant may recover a proportionate part of the premium from the ex-landlord. He seems to have no alternative remedy. He can recover a proportionate part of the premium if he assigns his tenancy from the person to whom he assigns it, but only if the rent paid by the lease itself to be payable is

less than the reasonable rent as fixed by the Tribunal. In those cases, the tenant is deemed to have paid, not the actual amount of the premium, but a reduced amount, and only the appropriate portion of the reduced amount is recoverable. The calculations made to ascertain the amount of the reductions are somewhat complicated.

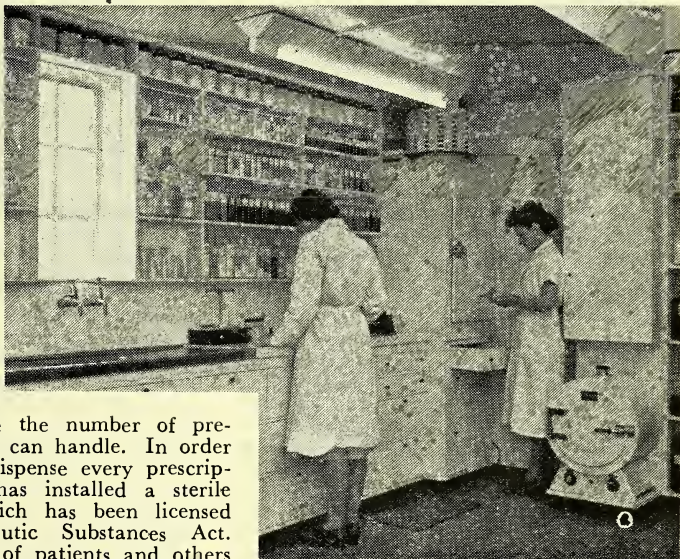
It is necessary to ascertain the excess of the appropriate portion of the premium for each rent period over the difference in amounts of the reasonable rent and the rent payable under the terms of the lease itself. That excess must be multiplied by the total of the rent periods in the tenancy. The sum thus arrived at must be subtracted from the actual sum paid by way of premium. The resultant figure represents the reduced amount of the premium, and the appropriate portion of that reduced amount for the remaining period of the tenancy that is being assigned may be charged as a premium.

THE PROFESSION IN PRACTICE

1—The Pharmacy of Mr. E. Ratcliffe, M.P.S., Wembley, Middlesex

ESTABLISHED in Milling Road, Wembley, in 1933, Mr. E. Ratcliffe has a new dispensary constructed in 1948. A special feature of the dispensary, part of which is shown, is an enamelled metal fitting containing over 100 subdivided drawers for storing all containers of pills, tablets, etc., Mr. Ratcliffe believes that good

planning can double the number of prescriptions a dispenser can handle. In order to be equipped to dispense every prescription presented, he has installed a sterile dispensing room which has been licensed under the Therapeutic Substances Act. For the convenience of patients and others requiring prescriptions he has provided a waiting room in the shop. Mr. Ratcliffe employs one pharmacist and one Apothecaries' Hall dispenser on dispensing duties.



A corner of the dispensary showing part of the main dispensing counter fitted with stainless-steel sink, refrigerator, and hot-air oven. The floor is of rubber composition.

A Guide to Pharmaceutical Education

CHEMIST AND DRUGGIST QUALIFYING EXAMINATION

The Chemist and Druggist Qualifying examination is to be discontinued after December 1952, and only candidates who were registered as apprentices or students before June 1, 1948, may enter for it. Other conditions of entry are (1) matriculation or its equivalent; (2) the Pharmaceutical Society's Intermediate examination (or exemption); (3) an apprenticeship of 4,000 hours before or after the intermediate course; (4) a full-time course of nine months in pharmaceutical chemistry, pharmacognosy, physiology and forensic pharmacy. All students are now being urged to take the Pharmaceutical Chemist Qualifying examination, even the minority who are still eligible to take the Chemist and Druggist Qualifying examination.

PHARMACEUTICAL CHEMIST QUALIFYING EXAMINATION

The Pharmaceutical Chemist diploma becomes, under the new regulations, the only statutory qualification for new entrants. The intermediate course, consisting of chemistry, physics and biology, takes one or two years (Higher School certificate, with passes in the required subjects, secures exemption). Studies may be completed either (a) by a two-years' full-time course in pharmaceuticals, pharmaceutical chemistry, pharmacognosy, physiology and forensic pharmacy followed by one year's practical training in a pharmacy, hospital or pharmaceutical manufacturing laboratory; or (b) by taking two years' practical training followed by the two-year full-time academic course. If recommended by his school a candidate may take the portions of the examination dealing with forensic pharmacy and the trans-

lation and dispensing of prescriptions the first year's academic course. A holder of a degree in pharmacy is admitted to statutory register of pharmaceutical chemists (if aged twenty-one or more) passing an examination in forensic pharmacy and serving a year's practical training.

UNIVERSITY DEGREES

Degree regulations vary slightly according to the University. The intermediate course includes chemistry, physics, one biological subject, and, usually, mathematics. Higher School Certificate holders with passes in required subjects secure exemption from the intermediate B.Pharm. examination. The course may be completed in three years.

The three-year course is for internal honours degree of B.Pharm. The first two years leads to an examination in pharmaceuticals, pharmaceutical chemistry, pharmacognosy and pharmacology (part of the final degree examination). For

the third year the candidate studies for part II of the final degree examination in two subjects selected from the following: Pharmaceutical chemistry; pharmacognosy, pharmacology, general pharmaceuticals and pharmaceutical engineering. Honours are awarded on the result of both parts of the examination for internal honours degree.

The two-year course is for the external B.Pharm. degree (in which no honours are granted) and includes pharmaceutical chemistry, pharmacology and physiology.

Degrees in pharmacy (in some instances B.Pharm., in others B.Sc. (Pharmacy)), offered by the universities of Glasgow, Leeds, London, Manchester, Nottingham and Wales.

BRIEFLY:

- (1) Chemist and Druggist Qualifying examination: to be discontinued after December 1952.
- (2) Pharmaceutical Chemist Qualifying examination: two years' post-intermediate college course and one or two years' practical training.
- (3) Degree in pharmacy: two years' or (for honours) three years' post-intermediate college course. Degree holders may take one year's practical training and an examination in forensic pharmacy to gain admittance to register of pharmaceutical chemists.

Courses for Pharmacy Students

Intermediate, Qualifying and Degree Courses

The following school and colleges offer (except where otherwise shown) courses for the Intermediate examination, the Pharmaceutical Society's Qualifying examinations (Chemist and Druggist and Pharmaceutical Chemist) and, in some cases, courses for pharmacy degrees in the Universities of Glasgow, Leeds, London, Manchester, Nottingham and Wales. Information about vacancies is the latest available but is subject to alteration.

DEEN.—*Robert Gordon's Technical College* (head of school, Mr. James E. Owen, B.Sc., Ph.C., F.R.I.C.): Intermediate; Chemist and Druggist; Pharmaceutical Chemist; B.Pharm. (some vacancies in all courses). Term commences October 4.

INGHAM.—*Central Technical College*: Intermediate (some vacancies); Chemist and Druggist (full); Pharmaceutical Chemist (some vacancies in second year). Term commences September 9; enrolment: week commencing September 5.

FORD.—*Technical College* (head of department, Mr. F. N. Appleyard, B.Sc., Ph.C., F.R.I.C.): Intermediate; Chemist and Druggist; Pharmaceutical Chemist; B.Pharm. (external, London University). Term commences September 26.

TON.—*Technical College* (head of department, Mr. Henry B. Mackie; B.Pharm., Ph.C.): Intermediate; Chemist and Druggist; Pharmaceutical Chemist; B.Pharm. (Honours) (London University). Edmund White medal and book value £3 3s. awarded to best pharmacy student of the year; silver medals awarded by Brighton and Eastbourne Associations.

STOL.—*Merchant Venturers' Technical College* (head of department, Mr. W. Cooper, Ph.C., F.B.O.A.): Intermediate; Chemist and Druggist. Ferris gold medal awarded to best student of the year. Other medals awarded by Bristol Branch of the Pharmaceutical Society. Term commences September 22.

COIFF.—*City Technical College* (head of department, Mr. R. Vernon Lloyd, B.Pharm., Ph.C.): Intermediate; Chemist and Druggist; Pharmaceutical Chemist; B.Pharm. (University of Wales); Honours and post-graduate course for B.Pharm. and Ph.D. Term commences October.

DUNDEE.—*Technical College*: Intermediate; Chemist and Druggist; Pharmaceutical Chemist. Term commences September 26.

EDINBURGH.—*Heriot-Watt College*: Intermediate; Chemist and Druggist; Pharmaceutical Chemist. Term commences October 11.

GLASGOW.—*Royal Technical College* (head of department, Professor J.P. Todd, Ph.D., Ph.C., F.R.I.C.): Intermediate; Chemist and Druggist; Pharmaceutical Chemist; B.Sc. (Honours) in pharmacy (Glasgow University). No vacancies this year. Kinninmont prize (£10 10s.) given annually on results of an examination; Anthony McMillan memorial prize (silver medal and books) to best student in Chemist and Druggist course; various awards from James Taylor Prize Fund. Term commences September 19.

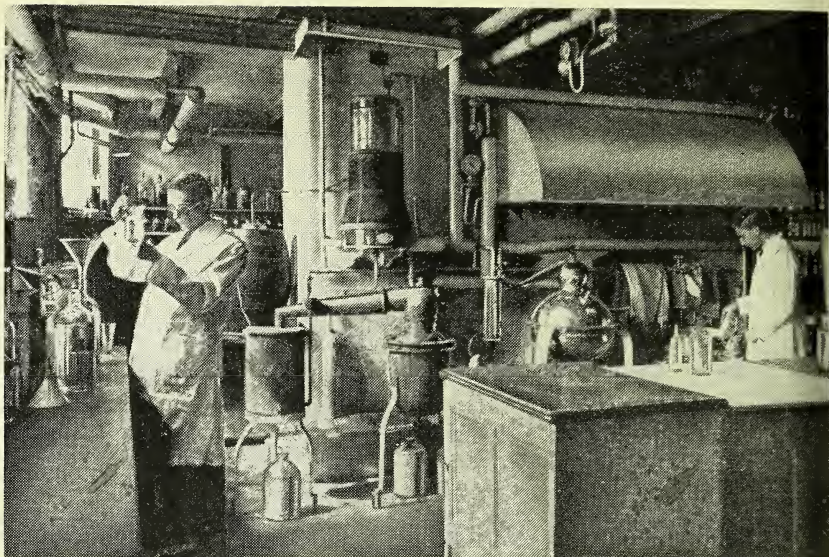
LEICESTER.—*College of Technology and Commerce (School of Pharmacy)* (head of department, Mr. Colin Gunn, B.Pharm., Ph.C.): Intermediate; Chemist and Druggist; Pharmaceutical Chemist; B.Pharm. (London University). George Hannan trophy and £5 5s. to most proficient dispenser in Chemist and Druggist course; Young memorial prize (£3 3s.) for best first year B.Pharm. or Ph.C. student, and various other prizes and awards. Arrangements for practical work in the Leicester Royal Infirmary.

LIVERPOOL.—*School of Pharmacy* (head of school, Mr. H. Humphreys Jones, Ph.C., F.R.I.C.): Intermediate, Chemist and Druggist. Term begins about October 1.

LONDON:

Chelsea Polytechnic (School of Pharmacy) (head of department, Mr. C. Morton, B.Sc., Ph.C.): Intermediate; Chemist and Druggist; Pharmaceutical Chemist; B.Pharm. (Honours) and B.Pharm. (both London University). Facilities for research in pharmaceutical chemistry, pharmaceuticals and pharmaceutical microbiology under teachers recognised by London University. Possible vacancies for graduates as part-time demonstrators.

School of Pharmacy, University of London (Dean, Professor H. Berry, B.Sc., Ph.C., F.R.I.C., Dip. Bact.):



Students of the school of pharmacy, Leicester College of Technology, at work in the pharmacy department, Leicester Royal Infirmary

Three-year final course for internal B.Pharm. (Honours) degree of the University (Chemist and Druggist and Pharmaceutical Chemist courses discontinued). Facilities for post-graduate research in pharmaceuticals, pharmaceutical chemistry, pharmacognosy and pharmacology. No vacancies.

MANCHESTER. — *University Pharmacy Department* (head of department, Professor H. Brindle, B.Sc., F.R.I.C., Ph.C.): Intermediate B.Sc.; Chemist and Druggist (some vacancies); Pharmaceutical Chemist (some vacancies); B.Sc. (Pharmacy) (no vacancies). Facilities for honours degrees in physiology or chemistry, diplomas in bacteriology and chemical engineering; post-graduate courses for M.Sc. and Ph.D. degrees. Allen & Hanburys research fellowship (annual value, £250); Woolley scholarship (£60); Kerfoot scholarship (£60); Wild prize (for thesis on pharmacology or pharmacy); and various other prizes and awards. Term begins October 6.

NOTTINGHAM. — *University, Pharmacy Department* (head of department, Mr. G. E. Trease, B.Pharm., Ph.C., F.R.I.C., F.L.S.): Chemist and Druggist, Pharmaceutical Chemist; B.Pharm. (waiting lists for all courses). Students live in

halls of residence in University. Term commences October 7.

PLYMOUTH AND DEVONPORT. — *Technical College* (head of department, Mr. Smith, M.Sc., F.R.I.C., Ph.C.): Intermediate, Chemist and Druggist, awarded by Plymouth Branch, Pharmaceutical Society, and by Evans, G. & Co., Ltd., Exeter. Term commences September 19.

PORTSMOUTH. — *Municipal College* (head of department, Mr. F. H. Oliver, B.Pharm., Ph.C.). Intermediate, Chemist and Druggist; Pharmaceutical Chemist; B.Pharm. Term commences September 20 (some vacancies in course for both Qualifying examination and for study for B.Sc. (Pharmacy)).

SUNDERLAND. — *Technical College* (head of department, Mr. J. M. Rowson, M.Ph.D., Ph.C.): Intermediate, Chemist and Druggist; Pharmaceutical Chemist; B.Pharm. (London University). Post-graduate courses in sterilisation, medicinal drugs, the British Pharmacopoeia, 1948, etc. Hope C. M. W. memorial scholarship (for research) a research studentship awarded by education authority; various other prizes.

Post-graduate and Refresher Courses, etc.

Schools of pharmacy and technical colleges that offer various kinds of post-graduate and refresher courses include the following:—

BIRMINGHAM: Central Technical College (evening classes on industrial bacteriology).

BRADFORD: Technical College (facilities for post-graduate research).

BRIGHTON: Technical College (various courses on pharmaceutical and pharmacological developments).

BRISTOL: Merchant Venturers' Technical College (particulars from secretary, Bristol Branch, Pharmaceutical Society, or from the college).

GLASGOW: Royal Technical College (courses in microbiology and for Associateship of the Royal Technical College).

LONDON:

Acton Technical College (courses in organic chemistry and biochemistry suitable for manufacturing and research pharmacists).

Chelsea Polytechnic (see under "Intermediate, Qualifying and Degree Courses").

MANCHESTER: University Pharmacy Department (see under "Intermediate, Qualifying and Degree Courses").

PLYMOUTH AND DEVONPORT: Technical College (refresher course on recent developments in pharmaceutics and pharmacology to be held during Spring term).

PORTSMOUTH: Municipal College (courses on aseptic dispensing and pharmacology to be held during session).

SUNDERLAND: Technical College (see under "Intermediate Qualifying and Degree Courses").

Dublin

A new programme of education proposed by the Pharmaceutical Society of Ireland was given in the *C. & D.*, July 23, pp. 118-19. Members have been invited to send in their comments on the proposals.

Optical Qualifications

Optical examining bodies include: The Worshipful Company of Spectacle Makers (F.S.M.C.), the British Optical Association (F.B.O.A.), the National Association of Opticians (F.N.A.O.), the Institute of Optical Science (D.Opt.), and the Scottish Association of Opticians (F.S.A.O.). The

Institute of Optical Science also conducts a school at 8 Wilton Crescent, London S.W.1, where courses are held in preparation for the Institute's various examinations. Courses for optical examinations conducted by Mr. C. A. Scurr, 50 Street, Barnet, Herts, are specially designed for those in business who wish to qualify by part-time study. In addition, courses for optical qualifications are offered by a number of technical colleges and refraction clinics in London and the provinces.

Chiropody

Chiropodists having suitable qualifications were officially recognised by the Board of Registration of Medical Aides in 1938.

For the purposes of registration, the recognised qualifying body is the Society of Chiropodists, 21 Cavendish Square, London, W.1. (Telephone: Langham 3228), from whom any further particulars required may be obtained. Recognised training centres include:—

BIRMINGHAM: School of Chiropody, Newhall Street, 3.

EDINBURGH: Foot Clinic, 81 Newington Road.

GLASGOW: Foot Hospital and College of Chiropody, 22 Windsor Terrace, Southern Foot Hospital, 44 Cumberland Street, C.5.

LEATHERHEAD: The Smae Institute.

LONDON: Chelsea Polytechnic School of Chiropody, S.W.3. Foot Hospital, Fitzroy Square, W.1. School of Chiropody, 299 Kilburn High Road, N. City Foot Hospital, 80 Rochester Road, S.W.1.

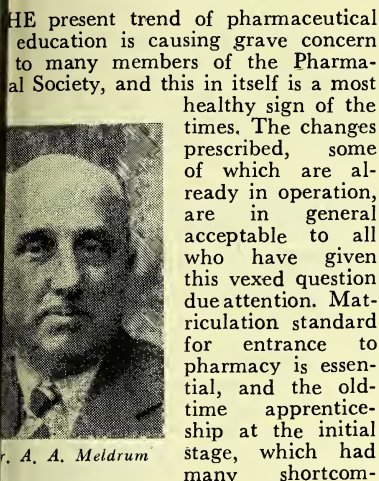
MANCHESTER: East Lancashire Foot Hospital, 322 Cheetham Hill Road, 8. Hospital, Anson Road, Victoria Road, 14. Royal Technical College, Park, Salford, 5.

Rations for Diabetics.—The Ministry of Food has issued a reminder that sufferers from diabetes mellitus should receive in lieu of their sugar ration and the ordinary allowance of cheese the following:—Milk, two extra rations a week; cheese, 12 oz. a week; fats, 12 oz. extra butter/margarine (to be taken up with the ordinary ration as follows: in odd-numbered ration weeks, 12 oz. butter, 8 oz. margarine; in even-numbered ration weeks, 6 oz. butter, 6 oz. margarine); cooking fat, the same for an ordinary consumer; milk (if prescribed), seven pints a week.

The Pharmacist of the Future

By A. A. Meldrum, M.P.S.

(Chairman, Pharmaceutical Society's Education Committee)



A. A. Meldrum

THE present trend of pharmaceutical education is causing grave concern to many members of the Pharmaceutical Society, and this in itself is a most healthy sign of the times. The changes prescribed, some of which are already in operation, are in general acceptable to all who have given this vexed question due attention. Matriculation standard for entrance to pharmacy is essential, and the old-time apprenticeship at the initial stage, which had many shortcomings, has gone. In its place the practical training now to be undertaken is of two years' duration if taken before the Final examination, but limited to one year only after qualification.

One-year Final Course

The four subjects of the Intermediate examination are of a more advanced standard than formerly, and for the present a two-year course has been prescribed for the Final examination. It has been agreed that the one-year course for the Chemist and Druggist qualification was totally inadequate for its purpose, and an extension to two years cannot have anything but beneficial results to all concerned. The merging of the Chemist and Druggist qualification with the Pharmaceutical Society qualification is an interim step to the complete dropping of the lower qualification. Soon the Council will be called upon to decide whether an extension of the qualifying course to three years is necessary or desirable. This decision requires and deserves most careful thought, ending as it does on the outcome of several outstanding problems. One most important point is that the Society's qualification should not be allowed to drag behind that of a degree as granted by the various universities.

Why are these changes necessary? For several reasons. Pharmaceutical education in this country has fallen woefully short compared with other countries, and we in Great Britain will have to bestir ourselves if we are to take and maintain our rightful place in the pharmaceutical world. For far too many years we have been content to see others forge ahead in pharmaceutical education, research and manufacture.

Education and Industry

Valiant efforts have been, and are being, made to extend foreign exports and in no field is this more urgent than in that of pharmaceutical manufactures. This calls for much research which depends on higher education. There is a growing demand for men with higher qualifications—a demand which will have to be met. A statutory qualification as a pharmacist is necessary for this work, and the Pharmaceutical Society has a grave responsibility to its members not only to maintain the status of the qualification but to legislate so that pharmacists will be adequately equipped for the job.

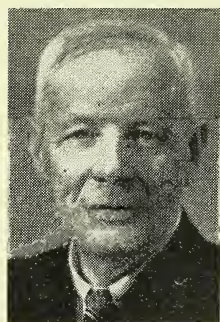
Already fundamental changes are taking place in this country. Pharmacists are being called upon to exercise to a fuller degree their professional capabilities and responsibilities. There is every reason to believe that these changes will be extended in the future. As pharmacists, we have a great part to play in the national sense as well as individually, and I am confident that with the advantages of higher educational facilities members of the Society will be better equipped to do so.

Doubts have arisen in some minds as to whether students of the future will consider that sufficient opportunity of practising their profession will exist in the pharmacy or retail shop. Changes are already visible here—the call of the dispensing counter is becoming increasingly clear. A real opportunity exists for highly qualified men to enter retail pharmacy and raise its standard to what they themselves know it is capable of becoming. By so doing I am convinced that not only will the pharmacists of the future be a success themselves but they will help to put British pharmacy on its proper plane.

Emphasis on Pharmaceutics

By Henry B. Mackie, B.Pharm., Ph.C. (Head of the School of Pharmacy Brighton Technical College)

THE late Edmund White used to say that pharmacy was like a comet with a brilliant head but a very long tail, and that there was the danger that the



Mr. H. B. Mackie

head and the tail would become detached, the tail to become diffused or lost in the general body of retail distributors of all types and the head to wander in isolation with "pure" scientists (whose purity appears to consist of being completely divorced from reality). As I see it—and I must emphasise that the opinions expressed here are purely personal and not binding on anyone except myself—the present educational trends should go far to minimise the danger.

"General Practitioners" and Specialists

The educational changes introduced by the Council of the Pharmaceutical Society last year will ensure, for the first time in the history of British pharmacy, that we shall have an integrated body of young people, well-educated and capable of adapting themselves to the changing times. The training is intended primarily to produce "general practitioners" but would also form a basis for the comparatively small number of specialists in particular subjects essential in all advancing professions. The one-year Chemist and Druggist course, in so far as it was effective, was essentially a vocational training; the two-year course for the Pharmaceutical Chemist tended for historical reasons, to emphasise chemistry; the new training should put pharmaceutics right in the centre of the picture and treat the other subjects in their proper relationship to this central aim. In this way it is hoped to maintain and develop a British type of pharmacy, distinct from the drug store of America and the somewhat analytical approach of some of our Continental con-

frères. I have had considerable experience of American and Continental students and, whilst not minimising much that is valuable in the training of each of them, I believe that the new training will include what is valuable in both and give a thesis which is entirely British in outline.

Briefly the changes are as follows:—Students will now have to pass an Intermediate examination before commencing their practical training in pharmacy. (This regulation merely makes obligatory a system which for over twenty-five years has become more and more accepted procedure).

One-year Course Inadequate

(2) The period of training for the Qualifying examination is now to be standardised at two academic years. Experience has proved that it is not possible to do in one year the type of training that is essential under modern conditions, and more than ten years those concerned with training have urged these changes. With a modern syllabus and an extended period of training there is every reason to believe that the percentage of passes will improve very considerably. What is being aimed at is a thorough training which, if conscientiously followed by a student of average intelligence, should ensure success in the examination.

(3) Training in the pharmacy may now be taken as articulated pupilage after passing the Intermediate examination and before commencing study for the Qualifying examination, and will then last two years. Alternatively, the student may first complete the whole period of academic training and sit his Qualifying examination; then only one year of post-graduate experience is required. It will be seen that this second method shortens the training period by one year.

There is little doubt that these changes will call for some adjustment of staff within the pharmacy, for to demand that all the work in the pharmacy (no matter how simple or repetitive) should be carried out by qualified personnel is at the same time to demand that the qualification be a low one. There is room for different opinions as to the exact form of ass-

necessary and the type of person to do it, but there is one point about which there is no room for disagreement: difference in status must be clear and the training must be given in a pharmacy.

Immediate and Long-term Benefits

A pharmacist in general practice may have some of these educational changes with a scepticism. I can understand his attitude but am confident his fears are groundless. The benefits will be both

immediate and long-term. Pharmacy will be in a better position in relation to the other professions and to the Ministry of Health. The whole status of pharmacy will be raised in the eyes of the public.

I have avoided discussing the question of university degrees in pharmacy. If they are to be accepted for registration, they will approximate in value to the Society's own qualification. If, as may sometimes happen, they are of higher standard, their presence will be an advantage to pharmacy.

Responsibility of the Colleges

By Kenneth R. Capper, B.Pharm., Ph.D., Ph.C., D.I.C.
(Chelsea School of Pharmacy)

THE new scheme for pharmaceutical education marks the final acceptance of the idea that apprenticeship in present conditions fails to serve its purpose. The colleges must now accept the major responsibility for both the practical and the academic training of entrants into pharmacy. One nine-month session is inadequate for this purpose and the present Chemist and Druggist course is perilously near to being a cram course. It should be possible, however, in two sessions, to turn out men and women

Mr. Kenneth R. Capper

with sufficient skill to handle the type of training required in modern practice with good general knowledge of the physical, chemical and pharmacological properties of drugs and the formulation of medicines. If the successful scheme will be in achieving this depends on the wisdom of those who draft the syllabuses, the efficiency of the teachers, and the policy of the examiners.

Relationship with Doctors

It is a regrettable fact that doctors do not always receive the help and information they are entitled to expect from pharmacists. This is largely due to the overloaded nature of the Chemist and

Druggist course which often fails to give the student time to understand fundamental principles and destroys any desire to read pharmaceutical literature after qualification. There are businesses where a well-informed and progressive pharmacist has created a goodwill amongst the local medical profession. These businesses are both profitable and satisfactory, but are far too few. I believe that the number of such businesses can be greatly increased and I hope the new scheme will provide the pharmacists to do it.

Society's Qualifications and Degrees

It would be a mistake to make graduation the only means of qualifying until the Universities have shown that they can turn out enough personnel of the right type to man the profession. The new Qualifying examination should not be a sort of "utility" degree. It is to be hoped that it will follow the examinations of the Royal Institute of Chemistry in striking an individual note. Possibly this could be best done by insisting on a high standard of performance and initiative in the practical work. On the other hand, the existence of the honours degrees should be of great value to pharmacy. The student who attempts such a degree accepts a challenge, as he will be labelled for life by his performance in the examination. Such a challenge is likely to be accepted by the most vigorous and alert entrants in pharmacy.

Effects on Recruitment

Some pharmacists are afraid that the increased length of the college course will

reduce the number of entrants into pharmacy and aggravate the existing shortage of qualified labour. With the reduced period of apprenticeship the total period spent in training is not longer than at present, and with so many grants available to students, not necessarily more expensive. It is by no means certain that the number of entrants will be reduced, and the effect of the new system of school education may help in this respect. However, the possibility that there may not be enough pharmacists to handle dispensing must be faced.

The question of an examination for pharmaceutical technicians is a vexed one, but is not always treated as logically as it

might be. Already a great deal of qualified labour is used for dispensing might be better if the position of labour were regularised. Provided level of general education and the subjects studied were carefully chosen should be possible to prevent any demand for their recognition as pharmacists. should be controlled by the Pharmaceutical Society and not by any outside body.

The teaching colleges will have own problems to face. Teachers, apparatus and space will all be required and are all hard to come by. It can be confidently assumed that the colleges will their best to meet the increased demand.

EXAMINATION RESULTS

In the Chemist and Druggist Qualifying examination held in London recently the following satisfied the examiners:

Ainsworth, John B. L., Caterham.
 Alexander, Daphne Patricia, Southampton.
 Appleyard, Peter A. J. Cheltenham.
 Basger, David Bernard, Manchester.
 Baum, Enid Mary, Leicester.
 Beaumont, Deric Wordsworth, Manchester.
 Beckley, Daphne Joy, Leighton Buzzard.
 Birch, Joyce Margaret, Leek.
 Bomber, Gwendoline Margaret, Smethwick.
 Bowskill, Jack Raymond, Beeston.
 Box, James Andrew, Ledbury.
 Bridge, James Haslam, Bolton.
 Brook, Pamela Mary, Luton.
 Bruce, Beryl Josephine May, Birmingham.
 Burrows, Vernon, Colwyn Bay.
 Cass, Ralph, Llanelly.
 Cichocki, Joseph Peter, Dundee.
 Connolly, Peter Francis Antony, Cardiff.
 Crees, William Desmond, Torrington.
 Croom, Timothy J. D., Bournemouth.
 Cross, Ivor Preston, Parkestone.
 Dale, Eileen Mary, Birmingham.
 Davies, Arthur Edward, Evesham.
 Davis, Peter James, Gloucester.
 Emerson, Thomas, Wolsingham.
 Etherington, Olive, Hendon.
 Flett, James Easton, Findochty.
 Fowke, Mary Florence Louise, Whitchurch.
 Fox, David Arthur James, Cirencester.
 Glass, Ursula, New Marston.
 Gridley, Jean Yuille, Chelmsford.
 Grigson, Stanley Robert, Edmonton.
 Guernier, George Maurice, Jersey.
 Henderson, Alistair John, Keith.
 Hibbert, Stanley Arthur, Carlton.
 Howlett, Arthur Hayward, Halstead.
 Hyslop, Jean Margaret, Lincoln.
 Ivens, Gerald Canning, Rugby.

Jackson, Morton, Bognor Regis.
 Jelley, Brian George, Leicester.
 Jenkins, Daphne Mary, Brecon.
 John, Thomas Hadyn, Goodwick.
 Keyworth, Roy, Doncaster.
 Lawrence, Leonard Clayton, Broadst.
 Le Breton, Kathleen Hilda, Smethwick.
 Le Tissier, Maud Olive, Guernsey.
 Longhurst, Lloyd James, Baldock.
 Maby, Barbara Irene, Chalfont St. P.
 Middleton, Dennis, Mexborough.
 Miller, Sidney Solomon, Clapton.
 Nunn, Phyllis Margery, Chorley.
 Oliver, Thomas Michael, Falmouth.
 Page, Francis Jones, Farnham.
 Pearson, Annette Patricia, Bedford.
 Platt, Joyce, Newcastle (Staffs).
 Poole, Edward Peter, Folkestone.
 Pope, Donald Geoffrey, Weymouth.
 Proctor, Clifford, Nelson.
 Ratsma, Derek Anthony, London.
 Richards, Stuart, Brierfield.
 Ripley, Kenneth, Bridlington.
 Rockall, Ronald Albert, Harrow.
 Sansom, Pamela Mary, Bristol.
 Silverman, Bernard, Cowley.
 Simpson, Brenda Irene, Cardiff.
 Southgate, Raymond, Morecambe.
 Sweeting, Frank, Bristol.
 Swindale, Arthur, Nottingham.
 Taylor, Roderic Henry George, Bush
 Herts.
 Terry, Margaret Jean, Birmingham.
 Timmins, Margaret Jean, Carlisle.
 Unwin, Patricia May, Acomb.
 Voss, Catherine May, Aberdare.
 White, Pauline Joan, Leighton Buzzard.
 Williams, David Marshall, Poole.
 Witty, Victor Oswald, Croydon.
 Wood, Victor Ralph, St. Austell.
 Wyatt, Eileen Mary, Salisbury.

Education in Northern Ireland

By C. W. Young (Municipal College of Technology, Belfast).

THE constitution of the Pharmaceutical Society of Northern Ireland in 1925 was one outcome of the setting up of the Northern Ireland Government and Parliament in 1921. The Society entered into an agreement with the Pharmaceutical Society of Great Britain that all for mutual recognition of the qualifications of members of either Society for the purpose of registration. Reciprocity exists with Australia and New Zealand, whilst members can have their names placed on the Register of the pharmaceutical body in Southern Rhodesia. Though the agreement with Great Britain possibly guided the Northern Ireland Society when forming her initial succeeding syllabuses differences in syllabuses and regulations for apprentices have existed, and exist, which demonstrate the independence of thought in the younger Society.

The examination for qualification as Pharmaceutical Chemists (equivalent to the Chemist and Druggist of Great Britain) is divided into two parts, referred to as Part I, or Preliminary Scientific examination, and Part II, or Pharmaceutical Chemist examination. The present regulations are embodied in the Statutory Rules and Orders of Northern Ireland, 1938, No. 37. In the original Part I or Preliminary Scientific examination, business methods was included as a subject of examination, and there are still those who feel that its removal from the syllabus was, if not a retrograde, at least an unfortunate step. Perhaps their attitude is bound up in the question which greatly exercises the minds of many Pharmacists today "Is Pharmacy a Profession or a Trade?—Can Trade and Profession be Separated?"

Part-time Classes

Prior to the introduction of the 1946 regulations, the examination in its entirety could be taken by night class study. In addition, full-time day classes were always available for both parts of the examination at the College of Technology, Belfast, and, at a very early stage, one-day part-time classes were introduced to meet the needs of students in the provinces, who might not attend classes at Belfast. I feel that these one-day part-time classes were

at least the inspiration of the part-time study arrangements existing today during the first three years of apprenticeship. Classes for the subjects of the Preliminary Scientific examination are held in the Londonderry Technical College and in the technical schools at Coleraine and Portadown. Queen's University, Belfast, is recognised by the Council.

Belfast University Degree

The University has a B.Sc. (Pharmaceutics) degree which has been available for the past twenty years. The degree may be obtained by study under the faculty of Applied Science and Technology, the venue of study being the College of Technology, Belfast. The course may be pursued by full-time study or by a combination of part-time and full-time study. The degree obtainable is Pass, First Honours or Second Honours standard, the Honours subjects being pharmaceutics and chemistry. The full-time course takes a minimum of three years' study after matriculation. If intending graduates wish to qualify for the statutory qualification of the Pharmaceutical Society of Northern Ireland at the same time as the degree, they must take the degree course, in part, by part-time study. They must fulfil the apprenticeship requirements laid down by the Society and taken in this way, the course would occupy a minimum of five years. The degree course is divided into Intermediate, Final Part I and Final Part II. Completion of the Intermediate is equivalent to the completion of the Preliminary Scientific examination of the Society. Completion of Final Part I of the degree course under these conditions exempts the intending graduate from examination in all subjects in the Qualifying examination of the Pharmaceutical Society with the exception of forensic pharmacy. The current copy of the syllabus of the Faculty of Applied Science and Technology of the Queen's University of Belfast contains requirements for matriculation to the Faculty and an outline of the course of study for the B.Sc. (Pharmaceutics) degree.

The minimum standard required of a candidate for the Preliminary certificate of apprentice to a Pharmaceutical Chemist

was from 1925 to 1936 the Junior certificate of the Ministry of Education for Northern Ireland, and from 1936 to 1946 the Pharmaceutical Preliminary examination of the Queen's University of Belfast. Today, the requirement is the matriculation examination of any University in the United Kingdom, or the Senior certificate of the Ministry of Education for Northern Ireland. The desirability of specialised *versus* general education up to this stage is a question that must have exercised the minds of the council of the Society when deciding compulsory subjects. At present, English and mathematics and three other subjects from a fairly comprehensive list are required. This means that the candidates need not present either physics or chemistry as a subject in their examination, and there are those today who question the wisdom of this position.

Acceptable apprenticeship is confined to service as an apprentice to a body corporate or a qualified person keeping "open shop," and service as an apprentice in the drug department of a wholesale chemist or druggist under the supervision of a Pharmaceutical Chemist. Apprenticeship has always been for four years, with the introduction of Articles of Pupilage from June 1, 1946, and a rather novel arrangement of the four years' apprenticeship, also from that date.

The value to be derived from an apprenticeship has, of late years, been a matter of considerable controversy. Apart from other considerations, the weakness in any master-pupil relationship rests in the individual failing to fulfil his or her contract at the highest level. Many feel that Articles of Pupilage, which are a two-way obligation, go far towards resolving this weakness—possibly as far as outside machinery can ever solve problems in human relationships. Many also feel that apprenticeship is valuable in that its many contacts facilitate the development of the young person at a very difficult stage in his or her growth, at a speed and in a manner that continued uninterrupted full-time study could not achieve.

When framing their present apprenticeship arrangements the council of the Society would appear to me to have had at least three possibilities under review:—*One*—full-time study for Part I followed by a period of full-time apprenticeship, then full-time study for Part II. This would ensure uninterrupted study for the Preliminary Scientific examination but an

undesirable lapse of two years before renewal of study for Part II. *Two*—part-time study for Part I and full-time study for Part II, followed by apprenticeship. If what has been said above about apprenticeship be true, the defect here lies in putting the cart before the horse. *Three*—part-time study with a controlled number of working hours for Part I and full-time study for Part II. This is more or less the course at present pursued.

During the first, second and third years the hours of attendance of the apprentice in the shop are limited to a maximum of thirty in any week in which the apprentice is in attendance at an approved institution, and these hours are so arranged as to enable the apprentice to attend courses of instruction for at least one whole day per week at the institution. In the fourth year the apprentice attends a course of approved instruction during the day-time of not less than twenty-five hours per week in each term of a session of three terms. During the periods the apprentice is not attending an approved institution he works in the shop for not more than forty-two hours per week. The part-time instruction in the first three years allows for continuation of study by the pupil and gives him an opportunity to complete his Preliminary Scientific examination.

No scholarships of any kind are at present available for those studying to become Pharmaceutical Chemists in Northern Ireland.

Hull Chemists Please Note. — At last one day the ulcer showed indisputable signs of healing. "I knew it would, doctor," he said, "provided we had patience. But if I had been living in Hull it would not have taken a quarter as long." The last bit was rather a damper but I had to ask why. It appeared that some years ago when suffering from similar trouble he had taken his watch to be repaired at a shop in the back streets of that Yorkshire city. While he was inside the man behind the counter asked about his leg, inspected it and announced that he could cure it in a fortnight. He retired to the rear of the shop and returned with some ointment in a boot polish tin. The claim proved no idle boast and my patient had carried the ointment about with him for years as insurance against future trouble. He had finally surrendered it to his sister to cure a burn which was proving resistant to the machinations of her panel doctor.—*A peripatetic correspondent in the "Lancet."*

MEDICAL ABSTRACTS

Calciferol with Streptomycin.—A combined treatment using calciferol and streptomycin, carried out by Cornbleet (*Journal of the American Medical Association*, 1948.138.1150) in several cases of lupus vulgaris rendered the lesions inactive in six to nine weeks. The drugs were so effective together as to suggest that they are synergists.

Penicillin against Anthrax.—Weinstein and Oliver ("American Practitioner," 1948, 2:497), report three cases of cutaneous anthrax among workers in contact with horses or wool. They were given penicillin intramuscularly and all made a complete recovery. The response to treatment with penicillin appeared to be more rapid than that attributed to sulphonamide compounds or antiserum.

Aureomycin in Nonbacterial Pneumonia.—Results in treating with aureomycin eighteen patients with primary atypical nonbacterial pneumonia are recorded by Schoenbach and Bryer ("Journal of the American Medical Association," January 29, p. 275) as sufficiently encouraging to indicate that the drug is an effective chemotherapeutic agent against the disease. The product was given orally, administration consisting of three evening doses of 100 to 250 mgm. at hourly intervals, followed by the same dose hourly until the patient became afebrile. Thereafter 15 to 20 mgm. per day was given every four to six hours for five to five days.

Anticoagulants in Coronary Thrombosis.—The use by Wright and others (*Journal of the American Medical Association*, 1948.11.1074) of heparin and coumarol (in addition to conventional means of treatment) in 800 cases of coronary thrombosis with myocardial infarction indicated that the additional treatment significantly reduced both the death rate and the incidence of thrombotic complications. Risks from hæmorrhage were not considered so great as usually (in the absence of hæmorrhagic conditions) to contraindicate the use of anticoagulants, given adequate facilities for laboratory control. If hæmorrhagic complications occur, the use of synthetic amin K preparations, or blood transfusions, is recommended.

Dangers of Pitch.—A number of clinical effects following the industrial use of coal tar and pitch are described, and

the pathogenesis of pitch and tar cancer is discussed, by Ross ("British Medical Journal," 1948.11.369). The following formula for a starch and kaolin paste is suggested for the prevention of tar erythema:—

Starch	...	...	...	28 gm.
Kaolin	...	...	...	1,600 gm.
Phenol	...	...	...	36 gm.
Glycerin	...	...	...	50 mls.
Distilled water	...	...	...	2 litres.

Make the starch into a thin paste with about 50 mls of water and pour in 950 mls of boiling water. Continue boiling for a few minutes (to ensure the breaking up of starch cells), add the phenol and glycerin and finally, in small quantities at a time with constant stirring, the kaolin. The final mixing should be done with the hands. Colouring matter may be added.

Treating Occupational Dermatitis.—The opinion that most cases of industrial dermatitis are overtreated is expressed by Anderson ("Journal of the American Medical Association," April 2, p. 912). Acute conditions should be treated with "soothing" solutions rather than ointment, and the following are suggested:—

- Aluminium acetate solution (Burrow's solution diluted with 12-16 parts water)
- Plain milk (cold) 4 parts, lime water 1 part
- Boric acid, 2-4 per cent.
- Magnesium sulphate (saturated)
- Sodium chloride solution, 0.9 per cent.
- Starch solutions (boiled)
- Weak sodium bicarbonate solutions.

Wet dressings should not be applied over more than one-third of the body surface, and they should be changed every two to three hours to prevent concentration by evaporation. In subacute conditions where there is dryness of skin, etc., ointments are indicated. Examples are:—

Aluminium acetate solution		5
Distilled water		5
Wool fat		20
Lassar's paste		30

For large areas liquid preparations may be preferred such as:—

Bismuth subnitrate		4
Zinc oxide		8
Olive oil and lime water—equal parts to make	240	
Apply locally several times daily.		

II

Wool fat, anhydrous		30
Olive oil (pure)		120
Heat in mortar and mix well. Add zinc oxide, 30, and talc, 30, and mix well. Add aluminium acetate solution (1, 2 or 3 per cent.), 3-9, and mix well. Add lime water (fresh) to make 300. Apply locally several times daily.		

When secondary infections are present, alibour water, or antibiotics may be used.

NEW BOOKS

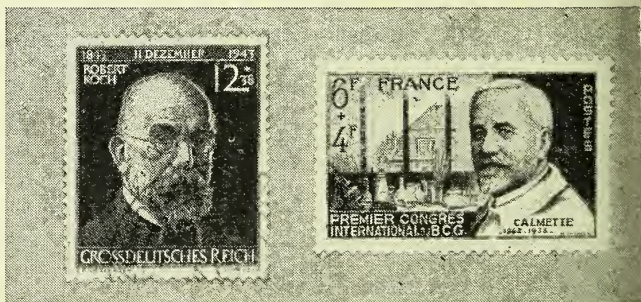
Text-book of Pharmacognosy.—G. E. Trease, B.Pharm., Ph.C., F.R.I.C., F.L.S. Fifth Edition. 8½ in. x 6 in. Pp. 811. 30s. Baillière, Tindall & Cox, Henrietta Street, London, W.C.2. The new edition of this valuable text-book, although only slightly larger, gives more detailed treatment of important drugs by reducing the space devoted to drugs "becoming obsolescent." The book has been revised in accordance with the U.S.P. XIII, 1947, and the B.P., 1948, and, in addition to the French and German, Spanish names of drugs in common use are added. The work will not only be of great use to students of pharmacognosy but also to all engaged in the drug trade.

Portuguese East Africa.—Cyril W. Andrews. 9½ x 6 in. Pp. 48. For the Board of Trade by H. M. Stationery Office, 1s. A further publication in the series of overseas economic surveys of individual countries. The author, who is H.M. Consul-General at Lourenço Marques, says that the colony of Mozambique furnishes a substantial market for fine and heavy chemicals. The colonial government's medical scheme, which came into effect in 1947, should bring about an increased volume of trade in pharmaceutical products. Total chemical imports in 1946 were valued at Esc. 12,385,000. The book gives regulations governing sale and labelling of pharmaceutical products. There are eight appendices.

Bentley's Textbook of Pharmacology. Vol. 5.—Harold Davis, B.Sc., Ph.D., Ph.C., F.R.I.C. 8½ in. x 5½ in. Pp. 1,30s. Baillière, Tindall & Cox, 7 Henrietta Street, London, W.C.2. Dr. D. (chief pharmacist, Ministry of Health, a former chief pharmacist, University College Hospital, London) with the collaboration of Dr. M. W. Partridge (lecture chemistry, University of Nottingham), A. I. Robinson, Ph.C. (formerly in charge of the manufacturing laboratory, Staffs Allen & Sons, Ltd., London) and other experts has revised and enlarged the Mr. A. O. Bentley's text-book on pharmaceuticals to produce a work that covers detail the whole field of modern pharmaceuticals. Up to date to the British Pharmacopoeia, 1948, the book will prove to a standard. It incorporates much of author's hospital experience—the section on tablet-making and sterilisation, for example, being notable in this respect. It is particularly well illustrated is a section of 150 pages (by Mr. Robinson) devoted to pharmaceutical manufacture. Other parts of the book deal with general principles of dispensing, pharmaceutical microbiology and surgical dressings. A section on pharmaceutical preparations gives British and a number of American standards, and names for branded official preparations. Many references are given, and a posological table is given as an appendix.

PERSONALITIES OF SCIENCE ON POSTAGE STAMPS—

THE centenary of the birth of Robert Koch (1843-1910), a native of Hanover, was commemorated in Klausthal, Germany, with a 12-pfennig stamp in chocolate. Koch, a distinguished physician and microbiologist, published the results of remarkable researches upon tuberculosis. Dr. Charles Calmette (1863-1933), the subject of the French 6 fr. and 4 fr. dark green stamp (right) released on June 18, 1948, to mark the first international Congress of the B.C.G., collaborated



in producing B.C.G. vaccine against tuberculosis. He was the founder of the Pasteur Institute, Lille, and some years later became manager of the Pasteur Institute which had been established in Paris.

MISCELLANEOUS INQUIRIES

Registration of New Pharmacies.—

E.—At present there is no restriction, from the registration requirements of the Pharmacy Acts of 1933 and 1941, on the opening of a new pharmacy or on conversion into a pharmacy of an ex-drug store.

liquid Leg-tan.—**S.H.W.**—The following produces a non-waterproof leg make-up which can be rendered waterproof by inclusion of cetyl alcohol:—

colidal kaolin	12
tinum dioxide	7
ethylene glycol monostearate (self-emulsifying)	23
er	45 ⁸
our	q.s.

Weatherproofing Canvas.—**S.R.A.**—

The following is a method for proofing canvas against the effects of weather:—Coat the canvas with a solution of gelatin. Repeat the application once or twice according to the texture of the material. When dry, soak the canvas for twenty-four hours in a solution of chrome alum and allow to dry.

Chemical Cigarette Lighters.—**M.P.T.**

The liquid used in the type of cigarette lighter you describe is usually methyl alcohol. There is at the bottom of the lighter a small filament coated with a catalyst. Pressing the cigarette down on to this filament and drawing air through, a reaction takes place with the methyl alcohol which causes the filament to glow, thus lighting the cigarette.

Wholesale Status.—**H.D.C.**—No actual

register of approved wholesalers is kept by the Surgical Dressings Manufacturers Association. A person or firm desirous of being regarded as a wholesaler makes application to the Association and the application is considered on its merits. Probably a small multiple concern, for example, whose branches were supplied from a single depot would be treated as a wholesale concern.

Non-oily Sun-tan Lotion.—**R.S.M.**—

The following formula is suggested as a starting point for experiment to produce a lotion having the desired characteristics:—

methyl salicylate	5
alcohol (95 per cent.)	35
cerin	10
ter	50

menthyl salicylate serves as a non-irritant "screen."

Glycerin Alginate Jelly.—**W.S.**—A glycerin jelly employing an alginate compound may be prepared using:—

Sodium alginate	40
Glycerin	250
Glycerin of borax	250
Distilled water	470

The sodium alginate is added gradually with constant stirring to the mixed liquids, and then left for forty-eight hours, with occasional stirring to complete solution. A suitable perfume and colouring are then added.

Pharmacies and Population.—**J.B.K.**—

It is difficult to suggest any definite figure for the population necessary to support a village pharmacy, as there are so many variable factors: e.g., whether people from outlying districts tend to come to the village to shop, or whether the village people depend upon a larger centre for the bulk of their shopping. Throughout Great Britain there is about one pharmacy to every 3,000 people. The following examples, taken at random, may prove useful in helping to form an opinion:—The following have one pharmacy: Lostwithiel, Cornwall (population 1,325); Penryn, Cornwall (3,414); Towcester, Northants (2,252); Wrotham, Kent (2,375). Emsworth, Hants (population 3,500) has two pharmacies; Rye, Sussex (3,947) has three; Hayes, Kent (1,678) has three; Totnes, Devon (4,525) has five.

Storm Glass Solution.—**T.T.I.**—The

following is a method of making a solution for a storm glass:—Dissolve 10 gm. camphor, 5 gm. saltpetre and 5 gm. sal ammoniac in 105 gm. 90 per cent. alcohol and 45 gm. distilled water. After filtering, fill with the solution glass tubes 2 cm. wide and 50 cm. long. Cork up well below and above, seal, and fix on boards by means of wire. The changes of the solution are supposed to signify the following:—Clear liquid, bright weather; crystals at bottom, thick air, frost in winter; dim liquid, rain; dim liquid, with small "stars," thunder-storms; large flakes, heavy air, overcast sky, snow in winter; threads in upper portion of liquid, windy weather; small dots, damp weather or fog; rising flakes remaining high, wind in the upper air regions; small "stars" in winter on bright, sunny day, snow in one or two days. The higher the crystals rise in the glass tube in winter the colder the weather is likely to be.

GUIDE TO NEW MEDICAMENTS

Information about new proprietary medicaments to be supplied principally on prescriptions. Editorial recommendation is not implied. Reprints obtainable on application.

FORTY-SEVEN PROTEINS TESTING OUTFIT

MANUFACTURER: Antibody Products, Ltd., 55 Bushey Grove Road, Watford, Hertfordshire.

DESCRIPTION: A case comprising 47 x 1-c.c. rubber-capped bottles, each containing different protein for sensitivity tests in asthma and hay fever.

DOLCIN

MANUFACTURER: Tampax, Ltd., 110 Jermyn Street, London, S.W.1, under licence from Dolcin, Ltd., Canada.

DESCRIPTION AND FORMULA: Tablets containing calcium succinate, gr. 2.8, and acetylsalicylic acid, gr. 3.7.

INDICATIONS: Articular and non-articular rheumatism, including fibrositis, neuralgia, lumbago and sciatica; arthritis associated with the menopause; gout, etc.

DOSAGE: Adults: One to three tablets to be taken four times a day before meals and at bedtime.

HOW SUPPLIED: Bottles of 100 and 500 tablets.

D.25, DELLIPSOID DEXTRO-AMPHETAMINE SULPH. CO.

MANUFACTURER: Damancy & Co., Ltd., Harrow, Middlesex.

DESCRIPTION AND FORMULA: Compressed torpedo-shaped coated-tablets (Dellipsoids) containing dextro amphetamine sulphate, 5 mgm., and phenobarbitone, 33 mgm.

INDICATIONS: Schizophrenic stupor, post-encephalitic Parkinsonism, hypotension, fatigue, states of depression, climacterics of men and women.

DOSAGE: As ordered by the physician.

HOW SUPPLIED: Containers of 25, 100, 250, 500, and 1,000 tablets.

HISTOSTAB

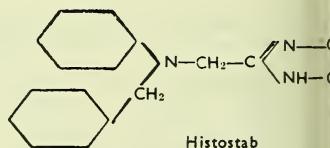
MANUFACTURER: Boots Pure Drug Co., Ltd., Station Street, Nottingham.

DESCRIPTION: 2-(N-phenyl-N-benzylamino-methyl)-iminazoline, an anti-histaminic substance.

INDICATIONS: Allergic manifestations, such as hay fever, urticaria, eczema, prurigo, pruritic dermatitis, neuro-dermatitis, anaphylactic shock.

DOSAGE: *Orally*: One tablet (see below) three times daily, increased if necessary to two tablets daily. *By injection*: 1 to 2 mil of injection solution (see below) three times daily intramuscularly. The intravenous route is recommended only in severe cases. *Local application*: Hay fever: Four drops solution of Histostab compound introduced into each nostril three to six times daily.

HOW SUPPLIED: Tablets containing 0.1 gm. (of the hydrochloride) in bottles of two and five. Injection solution ampoules of 2 mils (containing 0.1 gm. of the methanephosphate) in boxes of six. Solution of Histostab compound in bottles of ½ fl. oz. (This preparation contains the sulphate of Histostab with 2-(naphthyl-methyl)-iminazoline nitrate).



SIMPLIFIED BOOK-KEEPING

By S. Howard Withey, F.Comm.A.

10.—Recording Branch Transactions

THE retailer whose business comprises one or more shops will usually find it necessary, sooner or later, to keep accounts at each, in order to localise profit or loss on trading. The book-keeping method will depend upon whether it is intended to keep a complete set of accounts at the branch shop or whether branch accounts are made up at head office.

The major proportion of branch sales will doubtless be transacted on a cash basis, and each branch manager should therefore keep a weekly sales return or cash sheet showing the daily takings, the various management and working expenses, all paid to bank, and the balance of cash in hand at the end of the week. If these particulars are supplied in sufficient detail the necessary accounts can obviously be completed at headquarters. No hard and fast rule may be laid down as to the pattern of the weekly cash return, but experience suggests that each shop should be supported by receipts and vouchers, and a list of any direct purchases and an abstract of the wages paid out should be given. The amount of cash in hand at the beginning of the week should be shown on the debit and or credit side, followed by the total of takings for each day and any receipts. On the right-hand or credit side are entered the total of management expenses (to agree with the statement attached), the total of direct purchases (list given), and the total of branch wages for the week (as per schedule). After recording any other payments made during the week, the cash balance is carried forward to the next week's return.

Branch Supplies

Goods supplied to the branch may be recorded in the retailer's ordinary day-book kept at the principal place of business and if there are several branch shops the head office sales journal is usually ruled with departmental lines, a separate column being headed for each branch and the entries, monthly, or other periodical totals are entered direct to the debit side of the particular branch account opened in the ledger. Sometimes all the cash takings are paid to bank by the branch manager; in

other cases they are either remitted to the central office or retained at the branch, but in all cases the total amount taken during the week should be entered on the debit side of the head office cash book and posted to the credit side of the branch account.

For purposes of comparison and control it is advisable to keep a special branch expenses journal with sufficient ruled columns to enable the weekly items of expenditure to be classified under headings such as wages, rent, rates and taxes, etc. The weekly totals of wages, purchases and expenses should be verified before entering the figures on the credit side of head office cash-book, from which they are posted to the debit side of the branch account.

Branch Assets

Where it is desired to keep a full set of books at the branch, a balance sheet or statement of assets and liabilities should be prepared to show the values to be taken over. The assets may consist of shop fixtures and fittings, stocks, etc., a certain amount of equipment, loose plant and utensils, and possibly a number of book debts. An amount may be owing to sundry creditors. Each item in the list of book debts should be entered on the debit side of its respective personal account opened in the sales or customers' ledger, with the date and the words "To Balance," and each item in the list of sundry trade creditors should be credited to its proper personal account in the branch purchases or bought ledger. The value of the stock under each heading should be shown in a separate stock account and, of course, the value of fixtures and fittings would have to be debited to a separate asset account opened in the impersonal ledger. The amount by which the total value of the branch assets exceeds the total of the liabilities taken over should be regarded as the capital of the branch, and this amount should be credited to a "Head Office Account" opened in the branch private or general ledger. As a rule, the accounts for equipment, business premises, goodwill, etc., are compiled at the principal place of business, and the amounts of depreciation are computed each year. The figures are credited to head-office account and debited to depreciation account.

TRADE REPORT

Spot quotations for pharmaceutical chemicals represent the prices for wholesale quantities of standard quality. Prices of crude drugs and essential oils vary as to brand or

28 Essex Street, W.C.2, Aug. 3

AFTER the August holiday most sections of the market re-opened quiet and steady. An announcement of a reduction of sixpence per lb. in the price of BRISMUTH METAL was followed by reductions in the SALTS, all with effect from August 1. The rates for CARBONATE and SUBGALLATE are lower by fourpence per lb., while those for the CITRATE, SALICYLATE and SUBGALLATE are lower by threepence per lb. Activity in the CRUDE DRUGS markets is small. Still higher values are indicated by shippers for Portuguese ERGOT, but importers are not disposed to buy at these prices, and it is thought that any old-crop material now available in Portugal will be of poor quality. All supplies of TONKA BEANS have been cleared from the market. CANADA BALSAM prices show a wide divergence. A parcel of Vera Cruz JALAP, now afloat, with a test of 10-11 per cent. resin, is offered at 2s. 6d. per lb., c.i.f., while Brazilian material, testing 15 per cent., is quoted at 2s. 8d. per lb., c.i.f. There is only a small demand for RHUBARB at present, but trade circles think that prices will rise in the event of any appreciable increase in business, owing to the difficulties of replacement of stock from China. In the ESSENTIAL OILS markets, Chinese ANISE is attracting a good inquiry, and the price of oil in drums rose during the past week from 5s. 9d. to 6s. 6d. per lb., with a similar advance for oil in tins. Quotations for EUCALYPTUS have risen slightly and more interest is being shown in this oil. PATCHOULI continues firm with few offers of spot supplies.

U.S. Drug and Chemical Report

New York, July 29

AT present there is little demand for THEOBROMINE ALKALOID from either the home or overseas buyers and a reduction of 25 cents per lb. was made during the past week, making the new price \$5 per lb. in bottles or kegs. Despite recent reductions in PENICILLIN prices the market for this antibiotic is still in a highly competitive position. Demand for INSECTICIDES is heavy and, in spite of increased production facilities, supplies will not be sufficient for domestic and export markets. CRUDE DRUGS are attracting few inquiries. It now seems certain that collection costs of domestic drugs will be lower during the current season, as a result of the greater supply of labour occasioned by the industrial recession. The availability of new-crop Indian PSYLLIUM SEED has created easier conditions and quotations are now at 19 cents per lb., spot, against 23 cents previously. The

volume of demand for CARNAUBA WAX has been sufficient to cause an increase in prices of No. 1 yellow and No. 3. The former is now quoted at \$1.10 per lb. and the latter at 80 cents. MENTHOL is dearer by 30 cents, at \$10.80 per lb. ESSENTIAL OILS markets, new-crop prices have resulted in reductions in PERMINT, which is now quoted at 80 cents per lb., against \$5.75 formerly. However, the outlook for the new peppermint crop is poor owing to damage to the crop by early frosts and, subsequently, to rain. Reports of large sales of West Indian LIME to Britain have maintained a stronger tone on the market here. Citrus oils are firm, while citrus oils are receiving a substantial inquiry.

Pharmaceutical Chemicals

BENZYL BENZOATE.—B.P. is quoted at 4s. 3d. to 5s. per lb., as to quantity.

BRISMUTH SALTS.—Reduced prices per container (in brackets), from August 1, are as follows:—CARBONATE.—1-cwt., 14s. 5d. (1-lb.); 14s. 4d. (2-lb.); 14s. (4-lb.); 14s. 2½d. (7-lb.); 14s. 2d. (14-lb.); 14s. 1d. (28-lb.). CITRATE is 2s. 3d. per lb. less; SALICYLATE, 2s.; and SUBNITRATE, 2s. 1d. less than carbonate. SUBGALLATE is 1s. per lb. more than carbonate.

CHLOROXYLENOL.—B.P. quality is quoted at 5s. 6d. per lb. in 1-cwt. drums.

CODEINE.—Makers' rates per oz. are as follows:—ALKALOID, ¼-oz., 60s. 3d.; 57s. 9d.; 2-oz., 56s. 3d.; 3-oz., 55s. 4-oz., 55s. 3d.; HYDROCHLORIDE, ¼-oz., 1-oz., 50s. 6d.; 2-oz., 49s.; 3-oz., 48s. 4-oz., 48s.; PHOSPHATE, ¼-oz., 46s. 1-oz., 44s. 3d.; 2-oz., 42s. 9d.; 3-oz., 4-oz., 41s. 9d. Prices of HYDROBROMIDE and IODIDE as alkaloid; and SULPHATE as hydrochloride.

CREOSOTE.—B.P. quality, ex beechwood, is quoted at from 6s. 9d. to 7s. 6d. per cwt.

EPHEDRINE.—Makers' rates per oz. are as follows:—ALKALOID: 1 oz., 11s. 16 oz., 11s. 6d.; 25s. oz., 11s. 3d.; 50 oz., 100 oz., 10s. 9d. HYDROCHLORIDE: 1 oz., 8s. 3d.; 16 oz., 8s. 7s. 9d.; 50 oz., 7s. 6d.; 100 oz., 7s. Assorted contracts may be booked for quantities of not less than 100 oz. over months. Containers: 50 oz. or more, 150-oz. lots carriage paid.

ETHYLMORPHINE.—Makers' rates per oz. are as follows:—ALKALOID, ¼-oz., 66s. 1-oz., 64s.; 2 oz., 62s. 6d.; 3-oz., 61s. 4-oz., 61s. 6d. HYDROCHLORIDE, ¼-oz., 1-oz., 54s. 6d.; 2-oz., 53s.; 3-oz., 52s. 4-oz., 52s.

HEXYLRESORCINOL.—B.P.C. material is quoted at from 175s. to 185s. per lb.

PHAMMOL.—Prices are from 3s. 8d. 6d. per lb., according to quantity.

INE PREPARATIONS.—Makers' prices for the home trade are as follows:

POTASSIUM IODIDE, B.P.—1 cwt., 18s. 6d.; 28 lb., 17s. 6d.

SODIUM IODIDE, B.P.—28 lb., 17s. 6d.; crystals, 17s. 7d.

RESUBLIMED BP.—1 cwt., 12s. 8d. Orders of 5 cwt. and upwards may be made up with d preparations at schedule rates.

Prices are extra. Contracts may be for 1 cwt. and over of assorted prems for delivery as required within months with rise and fall clauses.

Rebate of 4d. per lb. allowed on ties of 5 cwt. in one delivery, or on for delivery within three months.

PHITHALEIN.—Quotations are from 1s. 6d. to 60s. per lb., as to quantity.

MNESIUM TRISILICATE (B.P.).—Prices (per lb.) in the home trade are unchanged.

Makers in brackets. 28-lb. to 1 cwt., (1-lb.) 4s. 3d. (2-lb.) 4s. 2½d.

(4-lb.) 4s. 1½d. (7-lb.) 4s. 1d. (14-lb.) 3s. 8d. per lb. Larger quantities range 3s. 2d. to 3s. 4½d. per lb. in 28-lb. packages, carriage paid.

MDELIC ACID.—In 28 lb. containers prices are from 12s. 10d. to 14s. 4d. per lb. in 1-lb. bottles, from 13s. 10d. to 15s. 1d. per lb.

MOL.—Steady. Prices per lb. are: 10 t., 19s.; 5 cwt., 19s. 6d.; 1 cwt., 28 lb., 21s.; 14 lb., 23s.; 7 lb., 24s.

Carriage paid in the United Kingdom.

CREATIN.—Price of B.P. material is 13s. 6d. to 16s. 6d. per lb., according to quantity.

ENAZONE.—Quotations for British-made and imported material range from 1s. to 25s. per lb.

ENYTOIN SODIUM.—Quotations for quantities are at about 35s. per lb.; use is available at the same price.

INE.—Steady. Makers' rates (per lb.) for home-trade distributors are given as additional charges must be added for packing, etc. ALKALOID, from 5s. to 6s. 6d.; ACETYSALICYLATE, 6s. 3d. to 6s. 1d.; BISULPHATE, 3s. 7d. to 4s. 1d.;

DIBROMIDE AND DIHYDROCHLORIDE, 4s. 1d. to 5s. 5d.; FORMATE, 5s. 9d. to 6s. 1d.; GLYCEROPHOSPHATE AND PHOSPHATE, 5s. 5d. to 5s. 11d.; HYDROBROMIDE AND HYDROCHLORIDE, 4s. 6d. to 5s.; SALICYLATE, 4s. 8d. to 5s. 2d.; SULPHATE, 4s. 6d. to 5s.; QUININE AND UREA HYDRO-IDE is quoted from 4s. 10d. to 5s. 4d.

ICYLIC ACID.—Steady. Makers' quotations for 1 cwt. is 2s. 2½d. per lb.; scheduled rates per lb. for quantities of 28 lb. and under 1 cwt. (containers in brackets) are: 2s. 10½d. (1-lb.); 2s. 9½d. (2-lb.); 2s. 9d. (4-lb.); 2s. 8d. (7-lb.); 2s. 7½d. (14-lb.); 2s. 6½d. (28-lb.). Net

month.

SANTONIN.—Supplies are still difficult. Makers' rates are: 5 kilos, £44 per kilo; less than 5 kilos, £45; 1 kilo, £46; half-kilo, £47; quarter-kilo, £48 per kilo; carriage paid in U.K.

SILVER COMPOUNDS.—Home-trade prices, in bulk packing, of PROTEIN, B.P., range from 30s. 6d. to 37s. per lb. VITELLIN, 20 per cent., is 55s. to 63s. per lb.; 30 per cent., 72s. 6d. to 82s. 6d. per lb., according to quantity. Additional charges are made for smaller packings.

SODIUM ALGINATE.—Current rates per lb. are unchanged as follows: 7-lb. lots, 7s. 3d.; 28-lb., 7s.; 1-cwt., 6s. 6d.

SODIUM SALICYLATE.—Steady. Makers' price for 1 cwt. is 2s. 7d. per lb.; resellers' rates per lb. (containers in brackets) in the home market as follows: 28-lb. and under 1 cwt., 3s. 4d. (1-lb.); 3s. 3d. (2-lb.); 3s. 2½d. (4-lb.); 3s. 1½d. (7-lb.); 3s. 1d. (14-lb.); 3s. (28-lb.). Net one month.

SULPHOCARBOLATES.—Prices of SODIUM or ZINC salts, crystal and powder, are 5s. per lb. for 1-cwt. lots and 5s. 3d. for 28-lb.

Methylated Spirits

METHYLATORS' rates per gall., for Great Britain, are as follows:—

Industrial methylated spirit: Strength 61 o.p., 500 gall. and over, in one delivery, 3s. 4d.; 100 gall. and under 500 gall., 3s. 6d.; 30 gall. and under 100 gall., 3s. 8d.; 10 gall. and under 30 gall., 3s. 10d.; 5 gall. and under 10 gall., 4s. 1d. Strength 64 o.p., ½d. per gall.; 66 o.p., (B.P.), 1d.; 68 o.p., 1½d.; and 74 o.p., 4½d. more than above rates. Tank wagon delivery: One halfpenny per gall. off list price—minimum 500 gall. For industrial methylated spirit of standard *toilet quality* prices are 2d. per gall. above foregoing prices.

Pyridinised industrial methylated spirit: Strength 61 o.p., 500 gall. and over, in one delivery, 3s. 6d.; 100 gall. and under 500 gall., 3s. 8d.; 30 gall. and under 100 gall., 3s. 10d.; 10 gall. and under 30 gall., 4s.; 5 gall. and under 10 gall., 4s. 3d. Strength 64 o.p., ½d. per gall. more than foregoing rates.

Mineralised methylated spirits: Strength 61 o.p., in one delivery, 100 gall. and under 500 gall., 3s. 10½d.; 30 gall. and under 100 gall., 4s.; 10 gall. and under 30 gall., 4s. 2d.; 5 gall. and under 10 gall., 4s. 5d. Strength 64 o.p., ½d. per gall. more than foregoing rates.

Methylated resin finish is 3d. per gall. over, and **methylated shellac finish**, 1s. per gall. over the prices for pyridinised methylated spirit.

Terms: Delivered free and carriage paid on returned empties; cash one month, less 2½ per cent.; packages charged, credited in full on return.

Crude Drugs

AGAR.—Steady. Kobé strip is offering at from 13s. 6d. to 15s. per lb., according to quality. South African powder, in tins in cases, is quoted at 18s. 3d. per lb., spot.

ALOE.—Steady. Prime Cape is offered at 110s. to 115s. per cwt. on the spot; shipment, 102s. 6d., c.i.f. Curaçao is quoted at from 180s. to 185s. per cwt. on the spot, and Socotrine at 170s.

ANTIMONY.—Metal prices are: 99.6 per cent. regulus, £170 per ton, delivered; 99 per cent., £160; 70 per cent., crude, £130.

ARECA NUTS.—Quiet. Spot quotations are in the region of 57s. 6d. per cwt.

ASAETIDA.—Quiet and steady. Persian block on spot is offering at prices from £14 10s. to £24 per cwt., as to grade.

BALSAMS.—*Canada* on the spot is offered at from 12s. 6d. to 15s. 6d. per lb. *Pará Copaiba*, B.P., 5s. 9d. per lb., on the spot, San Salvador *Peru*, quoted at 4s. 6d. per lb., duty paid. *Tolu* is quoted at 9s. per lb., spot; July-August, 8s. 6d., c.i.f.

BELLADONNA.—Jugo-Slav root is quoted at from 3s. 9d. to 4s. 9d. per lb., duty paid, as to test; shipment, 3s., c.i.f. Jugo-Slav leaves (B.P.) are offered at 4s. 2d., duty paid. English leaves are offered at around 5s. per lb., as to test.

BENZON.—Firm. Sumatra block, on the spot, is offered at from £17 to £17 10s. per cwt.; shipment, £17, c.i.f. Siam block (small almonds), £118, c.i.f.

BISMUTH.—Metal has been reduced by 6d. per lb. The new price is 10s. per lb., net, in minimum 5-cwt. lots.

BLACK HAW.—Root bark, on the spot, is offered at 4s. 6d. per lb., duty paid; tree bark, 3s. 3d., duty paid.

BUCHU.—Steady. New-crop short rounds, spot, 3s. 7d. to 3s. 9d. per lb., as to quality; forward, 3s. 5d. per lb., c.i.f.

CALABAR BEANS.—Steady. Spot quotations are from 10½d. to 11d. per lb.

CAMPHOR.—Steady. Chinese tablets are offered at from 7s. 6d. (¾-oz.) to 8s. (1-oz.) per lb.; refined natural powder (B.P.), 6s. 3d. to 6s. 6d.; slabs (2½-lb.), 7s. 3d., spot, London, duty paid. English synthetic powder, B.P., is quoted at 5s. per lb., and technical at 3s. 9d. per lb., in 100-lb. lots.

CANTHARIDES.—Quiet. Chinese on spot is offering at 7s. per lb.

CAPRICUMS.—African on spot is offered at 95s. to 140s. per cwt., as to quality.

CASCARA SAGRADA.—Little business done. Quotations for mature bark on the spot are around 175s. per cwt., duty paid.

CASCARILLA.—Quills are quoted at 1s. 5d. and siftings at 1s. 3d. per lb., spot.

CASSIA PODS (*C. fistula*).—East Indian is quoted at from 62s. 6d. to 65s. per cwt., ex wharf London.

CHERRY BARK.—Thin natural is at 1s. 4½d. per lb., duty paid, ex st.

CHILLIES.—Quiet. Mombasa is valued 155s. per cwt., spot; Sierra Leone Nigerian, nominal.

CINCHONA.—Tanganyika *Ledge* good bright thin quilly chips (T.A.) per cent.; quinin. sulph. (B.P., 1948) per cent.; cinchonidine, 0.96 per cent. offered at 2s. 11d. per lb., spot. *succirubra*, fair reddish, bright stem and root chips (T.A., 5.59 per S.Q., 2.39 per cent.; C., 0.97 per cent. quoted, ex wharf London, at 2s. 4d. lb. A parcel of Tanganyika hybrid selected broken quill (T.A., 5.73 per S.Q., 3.24 per cent.; C., 1.4 per cent. offering at 3s. per lb., spot, Uganda, dull and earthy root chips (7.03 per cent.; S.Q., 3.43 per cent., 0.87 per cent.), offered at 1s. 4d. per spot. Uganda Loxa-type, branch and twiggy chips, mixed with small (T.A., per cent.; S.Q., 2.08 per cent.; C., per cent.), is quoted at 1s. 2½d., spot.

CLOVE.—No offers of Zanzibar on spot; July-August, 1s. 2½d. per lb., Madagascar are 1s. 2d. per lb., duty 1s. 1d., in bond. Penang are quoted 3s. to 3s. 3d. per lb., spot.

GINGER.—African on spot is quoted 180s. per cwt. Jamaican No. 1, 197s. per cwt., spot; No. 2, 195s., value; to arrive July-August, 185s., c.i.f.

GUAIACUM RESIN.—Steady. Quoted 2s. 4½d. to 2s. 6d. per lb., spot.

GUM ACACIA.—Kordofan cleaned on the spot, dearer at 65s. per cwt.; ment, 62s., c.i.f. Bleached No. 1, 125s., to arrive, 115s., c.i.f. Talha, on spot, per cwt.; shipment, 39s. per cwt., Market is firmer.

IPECACUANHA.—Firm, Nicaraguan, October-November shipment, quoted at 21s. to 22s. per lb., c.i.f.; spot quotations from 24s. per lb. as to test. Colombia quoted at 20s. per lb., spot; 19s., c.i.f.

JALAP.—Vera Cruz, spot, 2s. 6d. to per lb. as to test. (10 to 15 per cent. re Brazilian (13 per cent.), 1s. 6d., spot per cent. shipment, 2s. 8d. per lb., c.i.f.

MENTHOL.—Quiet. Brazilian, spot quoted at 62s. to 62s. 6d., duty paid.

MERCURY.—Ex warehouse, £18 10s. flask; shipment, £17 17s. 6d., c.i.f. U.I.

MYRRH.—Aden sorts on the spot offered at £12 per cwt., siftings are quoted at £6 10s. to £7 per cwt.

NUX VOMICA.—Cochin on spot is quoted from 36s. per cwt.; at origin, quoted for washed and garbled material are 30s., c.i.f. Mangalore is 34s. per cwt., s.

PODOPHYLLUM.—Indian (*emodi*) is offered at from 310s. to 315s. per cwt., wharf, as to resin content; American (*tatum*), 275s. to 280s. per cwt., duty p

BARB.—Chinese common round, on spot, is quoted at from 5s. 6d. to 6s. 6d., duty paid, according to fracture.

SARAC.—Old-crop material is offered at 3d. and new-crop at 5s. 6d. per lb., London.

SAPARILLA.—Jamaica native red, on spot, is offered at 2s. to 2s. 2d. per lb. maican grey, 3s. 6d., spot.

OS.—The ANISE market is quiet. is offered at 150s. per cwt., duty and Turkish at 140s. per cwt., duty both spot London. CARAWAY.—Dutch little easier with quotations at 105s. t., duty paid in London. CELERY.— is unchanged at 1s. per lb., spot

1. CORIANDER.—Market is firm. co, for shipment, quoted at 37s. 6l. wt., c.i.f. London; Argentine is 30s. t., duty paid, spot London. CUMIN.

Crus. on the spot, is 135s. per cwt.; is 145s. per cwt., spot London; and co, 135s., duty paid, spot London.

Indian continues firm at 55s. per spot London. FENNEL.—Indian is in

demand at 70s. per cwt., in London; is quoted at 67s. 6d. per cwt., duty spot London. FENUGREEK.—Market

uses firm. Indian is 57s. 6d. per cwt., London; Morocco, is offered at 52s. 6d.

wt., duty paid, spot London, but no ss reported at this figure.

SEGA.—Spot quotations for old-crop are at 6s. 3d. per lb.; new-crop. July- t shipment, 5s. 6d., c.i.f.

NA.—Tinnevely leaves, spot, No. 1, 93d. to 11d. per lb.; No. 2,

o 8d.; No. 3, 6d. per lb.; Tinnevely hand-picked, 9d. to 1s. 5d.; manufac-

5d. to 6d. Alexandrian pods, hand- spot, from 4s. 9d. to 5s. 9d. per

minal; medium grades are 3s. to 4s.; acturing, from 1s. to 1s. 9d. per lb.

ndrian leaves, f.a.q., 1s. 2d. per lb.

LLAC.—F.O.T.N., pure, is quoted at per cwt., ex warehouse London; F.O. ard 1s., unquoted; fine orange, 380s.

s. per cwt.

ILL.—Italian fair white on spot is quod at 52s. 6d. per lb.

AMONIUM.—Indian on spot is offered s. per cwt.; Hungarian, 80s., spot.

OPHANTHUS.—Kombé, 100 per cent., e spot, is quoted at 12s. 3d. to 12s. 6d.

p. No supplies of *gratus*.

TRAX.—Supplies are offering at from 1. to 6s. per lb., duty paid.

AGACANTH.—Steady. Selected white n, spot, is quoted at £90 per cwt.;

white grades, from £40 to £70; pale £33 to £35; amber flake, £20 to £25;

£12; hoggy, about £5 to £9 per cwt.

ERIAN.—Belgian natural is offering 7d. to 1s. 8d. per lb., spot; cut and ed, 1s. 9d. per lb.

Essential and Expressed Oils

ANISE.—Quotations for Chinese Star on spot are from 6s. 6d. per lb. in drums, and from 6s. 9d. per lb. in tins in cases.

CAJUPUT.—B.P. grade is offering at from 19s. to 20s. per lb., on the spot.

CASTOR OIL.—Basic price of pharmaceu- tical quality is £116 per ton, naked, ex mill Hull. Prices of unrefined oils are: Firsts, £110; seconds, £103.

COPAIBA.—Spot offers are at from 14s. 6d. to 15s. per lb.

CUBEBS.—Steady. Supplies of English- distilled offered at 50s. per lb.

DILL.—English-distilled oil is quoted at from 65s. per lb. for B.P. quality.

EUCALYPTUS.—Steady to firm. Spot quotations for 70-75 per cent. (B.P.) are from 3s. to 3s. 6d. per lb. for drums, as to seller; for shipment, 3s. 1d. to 3s. 3d., c.i.f., quoted.

LEMONGRASS.—Firm. Spot quotations are 8s. 9d. to 9s. per lb.; July-August ship- ment, 8s. 3d. to 8s. 5d., c.i.f.

LIME.—Steady. West Indian on spot is offered at from 38s. 6d. per lb.

MUSTARD.—Synthetic is priced at from 10s. 6d. to 14s. 6d. per lb., as to packing.

NUTMEG.—Prices of English-distilled oil are at 35s. to 37s. 6d. per lb.; second- grade, 25s. per lb.

PALMAROSA.—Nominal spot quotation is 35s. per lb.; shipment, 32s. 6d., c.i.f.

PATCHOULI.—A firm market. Dealers are asking from 37s. 6l. to 40s. per lb., spot; shipment, 36s. 6d. per lb., c.i.f.

PENNYROYAL.—Spanish oil (B.P.) on the spot is at from 15s. 6d. to 17s. per lb.

PEPPERMINT.—English-distilled "Mitch- am" oil is offered at 200s. per lb.

PIMENTO BERRY.—English-distilled oil, from 57s. 6d. to 65s. per lb. and upwards as to quantity.

PINE.—*Pumilionis*, about 16s. to 17s. per lb., spot; *syvestris*, from 8s. 6d. to 10s.

PINE NEEDLE.—Supplies on spot are offered at 12s. 6d. to 15s. per lb., for first- grade oil.

ROSEMARY.—Spanish on spot is offered at 6s. to 7s. 6d. per lb., as to quantity.

SANDALWOOD.—Mysore oil on spot, from 66s. to 73s. per lb.; English-distilled is about 75s. per lb.; West Indian, from 16s. per lb., on the spot.

TEASEED.—Spot quotations for refined oil are at 23s. 6d. per gall.

TEREBINTH.—Quotations for B.P. oil are from 1s. 6½d. to 1s. 10½d. in winchesters, and 1s. 5d. per lb. in carboys.

TI-TREE.—Quotations are from 6s. 6d. to 8s. per lb., according to quantity.

VALERIAN.—English-distilled oil is quo- ted at 75s. per oz.

TRADE MARKS

(From the "Trade Marks Journal," July 13)

"NIP-O-MINTS"; by J. Finegan & Son, Smethwick; B664,944. "PANDA-POPS"; by Jasco, Ltd., London, W.C.2; 672,575.

For medicated powders (5).—"AUTO-SORB"; by Abril Corporation (Gt. Britain), Ltd., Bridgend; 675,848.

For non-medicated toilet paper (16).—"SANETTE"; by the Service Supply, Ltd., London, W.C.2; 663,457.

(From the "Trade Marks Journal," July 20)

For industrial chemicals (1).—"ALDAMEL," "ALDABOND," "ALDACOL" and "ALDACOT"; by the British Oxygen Co., Ltd., London, W.1; 674,280-88.

For non-medicated toilet preparations (3).—"OPTIMISTE"; by Parfumerie J. Lesquendieu, Paris; 665,451. "EVE" on label device including woman's head and apple; by Joseph Watson & Sons, Ltd., Leeds; 667,213. "PORTRAIT"; by Lehn & Fink Products Corporation, Bloomfield, U.S.A.; 669,879. "ELATION"; by Dorothy Gray, Ltd., London, S.W.20; 671,373. "PALOMA"; by Sunnydale Products, Ltd., Hull; 670,942. "JANVERE"; by Ronald Edmond Chipperfield, Beckenham; 674,335. "BOOTS" in distinctive lettering; by Boots Pure Drug Co., Ltd., Nottingham, 675,472.

For non-medicated face powder and lip-stick (3).—"LOUIS PHILIPPE"; by Louis Philippe, Ltd., London, N.16; 666,682.

For perfumes, cosmetics, hair lotions and dentifrices (3).—"ATY" in distinctive lettering; by Atygold, Ltd., Bradford; B668,395. "CABB"; by Vibert Frères, Montreuil-sous-Bois; 674,933.

For all goods (3).—"COLLOSOL"; by the Crookes Laboratories, Ltd., London, N.W.10; 671,632.

For pharmaceutical preparations (5).—"CEVANOL"; by Imperial Chemical (Pharmaceuticals), Ltd., Slough; 668,574. "NERVIKAM," "NAZODISA" and "KAMISABISKA"; by Kamisa Laboratories, Ltd., London, E.C.3; 674,527-28 and 674,898. "PENNAR"; by P. Smith (Mountain Ash), Ltd., Mountain Ash; B674,624. "MOSIDAL" and "SORLATE"; by Abbott Laboratories, North Chicago; 675,896-97.

For medicated confectionery (5).—"CODIPOPS," "COLLIPOPS" and "HALLIPOPS"; by E. R. Howard, Ltd., London, E.C.1; 674,790-92.

For all goods (5).—"PLASTULE" John Wyeth & Brother, Ltd., London, N.16; 674,789. "ISODREN"; by V. Blenkinsop & Co., Ltd., London, 675,137. "TRIMOSON"; by Bayer

Products, Ltd., London, W.C.2; 680,335. For suppositories (5).—"ALGICON" by Société Louis Joullié & Co., Paris; 675,367.

For insecticides (5).—"LYCTANE" Cooper, McDougall & Robertson, Berkhamsted; 676,120.

For vaporising ointments (1).—"VAPEX-VOLATOL"; by Thomas Ke & Co., Ltd., Bardsley; 680,006.

For surgical instruments (1).—"ROCU"; by Leopold Freudenberger, Randwick-Sydney; 671,996.

TRADE LITERATURE

Revised editions of booklets on Certain dihydrocholic acid, Ekammon tablets and Viacutan methargen have been issued by WARD, BLENKINSOP & CO., LTD., 61 Rietta Place, London, W.1.

The June 1949 issue of "Rubber Developments," the organ of the RUBBER DEVELOPMENT BOARD, Mark Lane, London, E.C.3, contains a note "Linings for Acid Tanks."

Publications of the IODINE EDUCATION BUREAU, Stone House, Bishopsgate, London, E.C.2, are listed in a folder available from the Bureau. Recent issues of "Iodine Information" deal with the determination of iodine in foodstuffs, plants, water, soils and animal tissues; contrast media for radiography; the recognition, hygiene and prevention of mastitis; application of iodine in chemical analyses, chemical detection of iodine, etc.

The twenty-ninth volume of a series of compendia of scientific papers ("Abridged Scientific Publications") by workers at KODAK RESEARCH LABORATORIES, Rochester, New York, U.S.A., was published recently. Among subjects dealt with are chemotherapeutic investigations of cyanides.

The spring issue of "Progress," published by LEVER BROS. & UNILEVER, Lion Works, Unilever House, Blackfriars, London, E.C.4, contains articles on "The History of Atkinson" and "Essential Oils." An article on "Industry and the Film" is included in the summer number of the publication.

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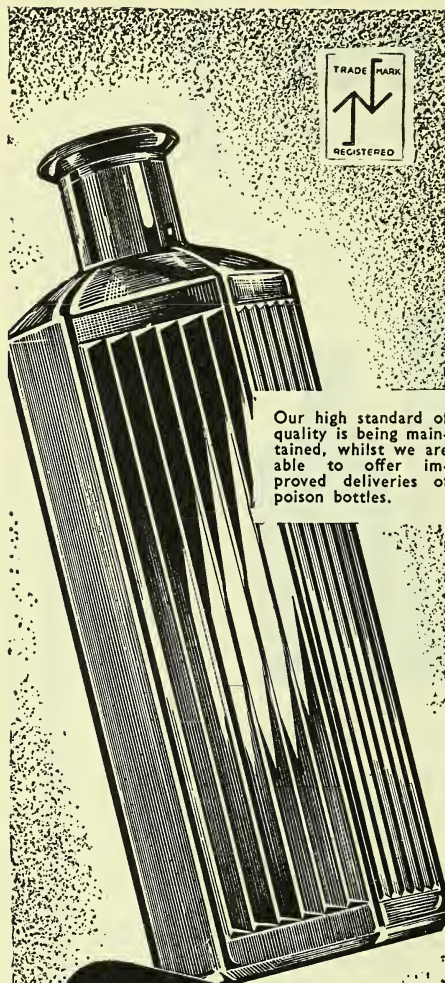
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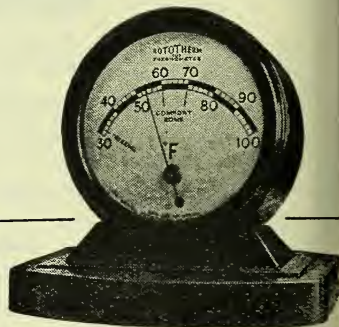
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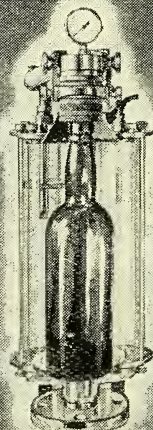
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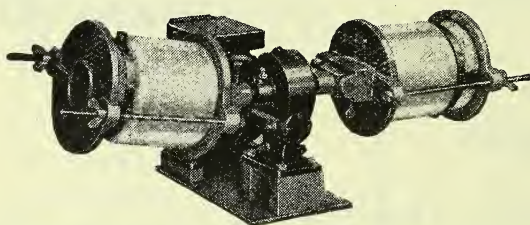
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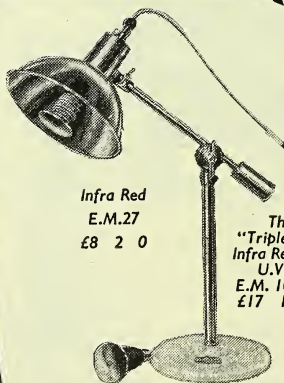
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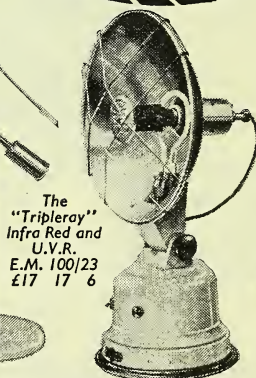
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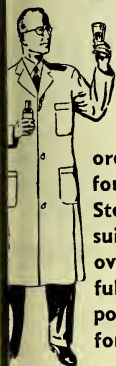


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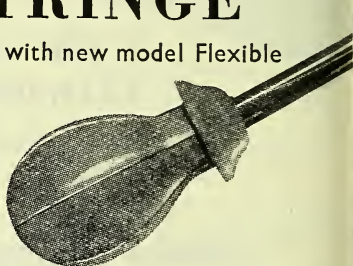
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Price '127' sizes £7 16s. od. per gross plus tax £5 12s. od.

Terms:—Cash with order, pro forma invoice or C.O.D.

We regret to announce that we are unable, at the moment, to accept any new customers for our D. & P. service.

Enquiries to:

JONES & BAILEY LTD

66/72 BREWERY ROAD, LONDON, N.7

Telephone: NORTH 2533

Telegrams: Certito, Holway, London

More than Half a Million users are asking for refills—others require new Ozonol Cabinets

Have you stocks to meet the ever-increasing demand and the regular repeat business which is being stimulated by first-class National publicity?

OZONOL Air Purifier complete:

Retail—5/10d. Trade—42/- per doz. + P.T.

REFILLS: Retail—2/- Trade—18/- per doz. TAX FREE

OZONOL

—the popular
**AIR
PURIFIER**
ever since 1927

Order from your wholesaler or direct from the manufacturers

OZONOL LABORATORIES (1930) LTD. New Wharf Rd. LONDON. N.1. TERminus 3727 & 6660

**Countless
Mothers
are
saying—**



... there are generous trade terms and liberal supplies. Attractive display matter and the backing of powerful National Advertising.

... a harmless preparation that saves labour, no boiling, no scrubbing or tubbing, will rise and wash overnight . . . won't harm my baby's my "wash" . . .

Keep me a carton a week!

—AND THAT'S WHY

NAPPI-WITE

FILES UP PROFIT

Send to-day for supplies to NAPPI-WITE LTD., 17 CONDUIT ST., LONDON W.1.

Always supply

MENE X

FOR WOMEN WHO PREFER

Soluble
TOWELS

Pre-stretched, detachable loops,
waterproof backs

ROBINSON & SONS LTD. CHESTERFIELD & LONDON

also makers of the famous

MENE

—popular for over 50 years

TRANSPARENT BAGS

FLAT BOTTOM and GUSSET PLAIN and PRINTED

Please send your enquiries to:

F. W. CROOKES & SONS LTD.

Wharnccliffe Works, Green Lane, Sheffield

who have now installed the MOST MODERN MANUFACTURING PLANT for TRANSPARENT BAG MAKING

MOSANS PESSARIES

15/- per doz. boxes
any wholesaler

INDIA

Introduce new lines, arrange royalty manufacture, fix agents. intensify distribution, maintain DIRECT touch to country's (also Pakistan, and Ceylon) best journal for retailers, wholesalers, importers: **CHEMIST AND DRUGSTORE NEWS.**

Copy, details free.

31 Hamam St., Bombay, 1

Now available

NEW, IMPROVED ARRID

over 8d. profit
on every
jar you sell!
Retail price 2/5
including
purchase tax

—the cream deodorant
which also stops perspiration

WOMEN are clamouring in the shops for Arrid—the world's biggest-selling cream deodorant which also stops perspiration. Advertising is being increased, and with a strong national campaign running, the demand will be something terrific!

Arrid sells on sight, and you make over 8d. on every jar. Easy, quick profits, and satisfied customers who'll come in for other goods! You'd be well advised to stock up without delay.

ORDER ARRID NOW!

Details of special terms for ARRID, Carter's Little Liver Pills, and other products
from THOMAS MARNS LTD., 2 CAXTON STREET, LONDON, S.W.1

There's a stronger pull
in **COLOUR** . . .

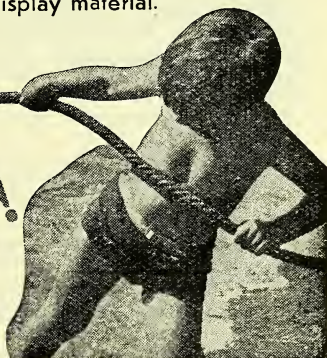


Be sure your customers know
any camera will take Dufaycolor pictures. It's used the same way as ordinary film and is just as easy. You'll be asked for Dufaycolor again and again this summer—be ready for it! Make a prominent show of your Display material.

PICTURE IT IN

DUFAYCOLOR!

MAKE SURE OF YOUR STOCKS



PACKS



for your own
PRODUCTS!

The best way to publicise your Proprietary Brands is to give them "eye appeal" with packs of attractive design, soundly manufactured. Let us send you samples to suit your individual needs

J. DRING LTD. THE AIRPORT PORTSMOUTH.

Tel. 7444 0

SAVE TIME...



Seal your packages
this **QUICK, EASY WAY**

An inch or two of self-adhesive *Transotape*, a flick of the finger . . . and your package is sealed cleanly, smartly and securely. *Transotape* mends, strengthens and protects. It's pilfer-proof. You can have it *printed*—and what a good advertisement! You can write on it. In colours to identify poisons and special drugs. Economical . . . you get 2,592 inches on a roll.

PAYS TO SELL

Ask about *Transotape Mini-rolls* for selling to your customers. Every home a potential user. In lovely colours, 180 inches to the roll.



puts **EXTRA** profit
on your turnover
Samples and prices gladly

John Goshon & Co Ltd Gayford Road London W12
(Chemist Service Section)

Britain's Tapographical Specialists since 1909

"RETURN BOTTLE" OFFICIAL WORDING STOCK LABEL

Samples & Prices from :

BRIGGS & BAMFORTH, Chemists' Printer
KINGS' AVENUE, LEEDS, 6. Tel. 2173

KLEENKIL D.D.T. FLYCARS

● MOST EFFECTIVE ● MOST PROFITABLE

Showcard, Window Stickers and Leaflets to increase your Sales—Dead Stock replaced free each Season

Write for **THE KLEENKIL** 11 KENTON GARDENS
detailists **COMPANY** HARROW, MIDDLESEX

DYANES FADELESS DYES

2½d. STOCKING (except Black) 20/- gross
4d. CURTAIN & COLD WATER 32/- gross
(including Black Stocking) Order Dyes and
Shade Cards from our Agents

Gt. Britain: W. B. Cartwright Ltd., Rawdon, Leeds
N. Ireland: T. McMullan & Co., Ltd., 42 Victoria
St., Belfast. Eire: May Roberts (Ireland) Ltd.,
Grand Canal Quay, Dublin, C.6.

BIG SHERLEY BONUS OFFER

introduce **TWO NEW** important lines

SHERLEY'S BLOOD SALTS FOR DOGS.

In response to many requests from users of Sherley products for Sherley Blood Salts we now offer this line in a new and easily administered form—in 1/3d. packets containing 21 powders each, each powder containing all the chief elements required to maintain perfect health.

SHERLEY'S CREAM SHAMPOO FOR DOGS.

This new and revolutionary canine shampoo simplifies dog washing. Removes all dirt quickly—imparts a natural silky gloss. In 1/3d. tubes.

To ensure that you shall not disappoint even one enquiry for these new Sherley lines we are offering to Retailers quantities of 3 doz. and upwards of each line, carriage paid, less a SPECIAL INTRODUCTORY DISCOUNT of 10/-. Thus:

3 doz. Sherley Blood Salts, 9/- per doz.	..	27/-
3 doz. Sherley Cream Shampoos, 9/- per doz.	..	27/-

Less SPECIAL INTRODUCTORY DISCOUNT	..	54/-
------------------------------------	----	------

Net cost	..	44/-
----------	----	------

Purchase Tax at 33½%	..	18/-
----------------------	----	------

	..	62/-
--	----	------

3 doz. Blood Salts	} Sold at 1/3 each	..	90/-
3 doz. Cream Shampoos			

... A PROFIT OF 28/-!

A. F. SHERLEY & CO. LTD., 16/18, Marshalsea Road., London, S.E.1

This is ENTIRELY DIFFERENT ! !

SELLS ON SIGHT •
ATTRACTIVELY
PACKED in PRINTED
CELLOPHANE
ENVELOPES AS
ILLUSTRATED •

Retails 10½d. each
Costs 5/9 per doz.
33½% P. Tax

DISPLAY STAND
WITH
3 DOZ. LOTS

**RODMILL
CHEM. Co. LTD.
LIVERPOOL 3**

MADE FROM PURE WHITE
LATEX FOAM

"cutie"
COSMETIC SPONGE



Washable · Soft Texture

IDEAL FOR USE WITH

LEG TAN

POWDER AND CAKE

MAKE-UP

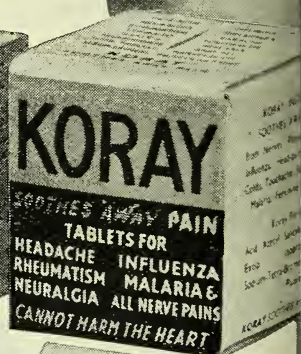
GIVING A SATIN SMOOTH FINISH

WITHOUT STREAKS OR UNEVENNESS

**10½^{D.}
2 EACH**

THIS HANDY PLASTIC CONTAINER increasing the already great demand for **KORAY**

Those thousands who regard KORAY as their "First Aid" in case of pain are making this plastic container their constant companion. It holds 5 tablets and fits into a waistcoat pocket or the smallest handbag.



There is a container in every one of the neat, "Cellophane"-wrapped packs of KORAY 28's and 64's. These larger sized packs of KORAY tablets give you a good profit margin and are excellent counter-lines. They are backed by powerful national advertising and create that goodwill which is only associated with a tried and proved product of quality.

The 10 tablet pack, recently re-designed, will act as an introduction to those who are not yet fully aware of the thoroughly dependable analgesic qualities of KORAY.

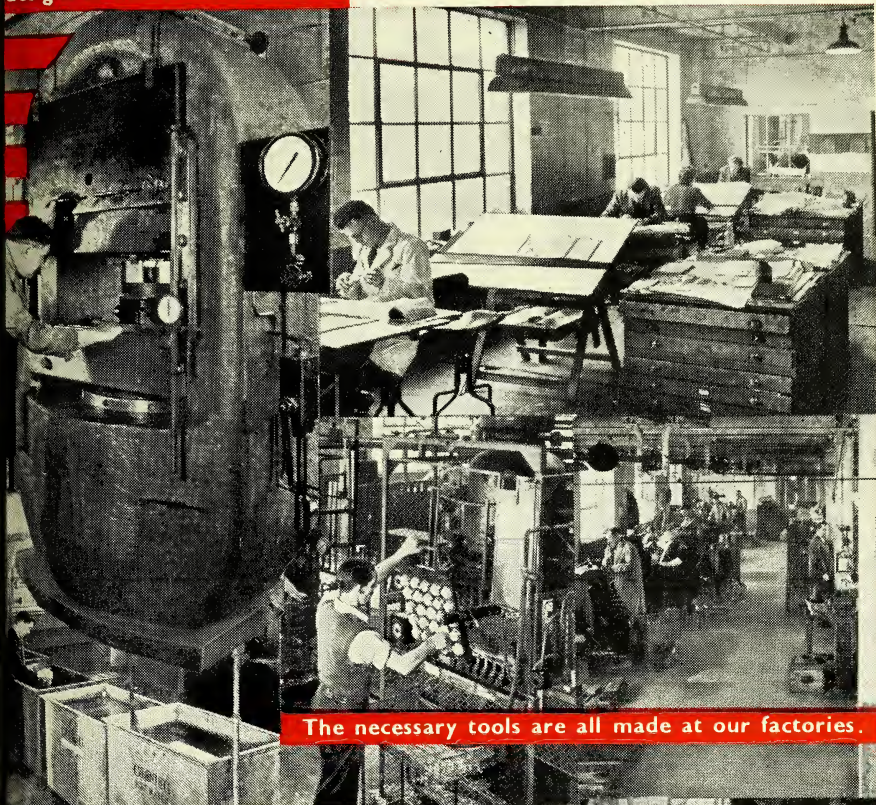


Send your order now to:

KORAY LTD., GOLDEN MILE WORKS, BRIDGEND, GLAM.

Moulded Closures

designs or models of moulded



The necessary tools are all made at our factories.

factory recommends

U G B

**BOTTLES
AND
CLOSURES**
The Perfect Pair

We supply moulded
special designs or
work moulds in opaque
tinted colours. The
co-operation be-
tween our Bottle and Cap
departments ensures efficient
production of your product."

the best liner for your product and

after the closures are moulded they

are individually inspected.

UNGLABOMAN, LESQUARE LTD

8 LEICESTER STREET, W.C.2

TELEGRAMS: UNGLABOMAN (15 Lines)

GRAMS: UNGLABOMAN, LESQUARE, LONDON

Yes...

RENDELL-FOAM

is Selling

Chemists who wisely ordered this new contraceptive, and use the attractive display material, are doing brisk business.



Rendell-Foam is worthy of your recommendation for the following reasons:—

- ★ The result of biological and clinical research, it sets a new standard in the technique of contraception and will be widely prescribed when conception control is necessary or desirable.
- ★ Completely spermicidal and remarkably rapid in action.
- ★ Non-irritant, has no objectionable odour, and is free from insoluble substances.
- ★ Will keep indefinitely and is not affected by climatic conditions.
- ★ The retail price, 2/6 per tube of twelve tablets, is an important public consideration.

OBTAINABLE FROM ALL WHOLESALERS P.A.T.A

Supplies of less than 6 dozen tubes	...	...	21/- per dozen net
Supplies of not less than 6 dozen tubes	...	...	20/- per dozen net
Supplies of not less than 12 dozen tubes	...	...	19/- per dozen net

W. J. RENDELL LTD

161/165 ROSEBERY AVENUE - LONDON - E.C.1

For many pharmaceuticals...



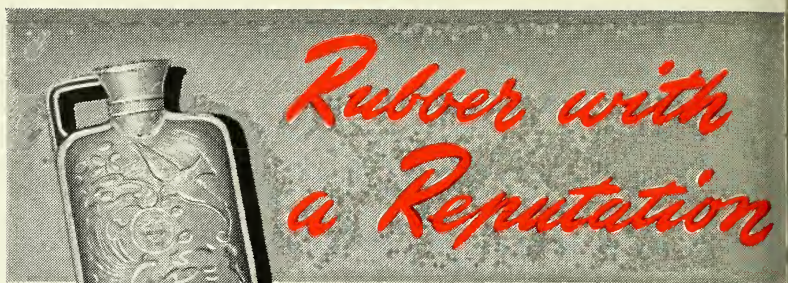
MONO

Containers

Salts, crystals, unguents and creams, and many patent foods—all depend upon freshness for consistent sales.

Mono waxed paper cartons are hygienic, moisture-proof and preserve the contents in perfect condition. Available with tapered or cylindrical sides and screw or disc lids with printed designs that avoid labelling problems. Enquire for details and samples.





Rubber with a Reputation

North British Rubber Products
are supreme in appearance,
dependability and quality.

All these products—in good supply to meet the
steady demand—are obtainable through your
wholesaler.

NORTH BRITISH

THE NORTH BRITISH RUBBER COMPANY LIMITED EDINBURGH, LONDON & BRANCHES

This
EXTRA
SALES
ASSISTANT
Will bring in
the summer
crowds !



This colourful poster for BRONTAN will be appearing throughout the summer to assist you in selling this popular Sun Tan Cream to thousands. There's always a steady demand for Brontan in the summer season, so be sure you have stocks available by ordering NOW!

BRONTAN LTD.

All orders and communications to Sole Distributors:—
ALFRED FRANKS & BARTLETT CO., LTD.,
AUDREY HOUSE, ELY PLACE, LONDON, E.C.1 Telephone No : HOL 1078/9

'CANDA'
STERILE
CORD POWDER

CONSPERSUS ALUMINIS et ZINCI pro INFANTIBUS N

•
Packets of 6 envelopes of sterile powder
wrapped in moisture-proof film
•

TRADE PRICE: 24/- per doz. Tax Free

CLAY & ABRAHAM LTD., Manufacturing Chemists, LIVERPOOL



Established 1813

CA162b

3 NEW LINES!

PAG PUMP ASTHMA INHALER

Retail Prices:	PUMP ALONE	36/6
Less 40%	PUMP & INHALER	64/-

DOUBLE SIZE RIDDOBRO

Retail 17/-

ASTHMA INHALANT

RIDDOBRO TABLETS

20's @ 5/-
100's @ 22/-

— ALL TAX FREE —

RIDDELL PRODUCTS LIMITED

AXTELL HOUSE · WARWICK STREET · LONDON · W.1

Telephone: GERard 3574



"That's unseemly talk, Emily!"

VICTORIANISM was not all tight laces and taboos. At a time when most unmarried ladies did nothing more exciting than arrange the flowers, Mary Kingsley braved the African swamps in search of new species of reptiles. In 1887, when expectant mothers were still obliged to knit in secret, Scott's of Edinburgh produced a new idea in infant feeding—M.O.F. Today, the same progressive spirit governs every aspect of Scott's policy and finds full expression in Scott's range of infant foods for mixed-feeding time.

Scott's Baby Cereal

The ready-cooked baby cereal fortified with essential vitamins and minerals.

Scott's M.O.F.

In use for sixty years. Contains added iron, calcium, phosphorus, Vitamin D.

Scott's Strained Foods and Baby Soups

A tempting variety of fruit, fish, meat and vegetable purées which help to prepare baby's taste-sense for normal food.

SCOTT'S OF EDINBURGH

A. & R. SCOTT LIMITED, COLINTON, EDINBURGH



**DIRTY WORK
TO BE DONE!**

THE BEST BARRIER PREPARATION

ROZALEX

IT STOPS DIRT FROM
GETTING INTO YOUR SKIN

ALSO ROZALEX OINTMENT

Rozalex Ltd., 10 Norfolk Street, Manchester 2

***At your service
for***

**PROPRIETARY ARTICLES
PHARMACEUTICAL PREPS.
DRUGGISTS' SUNDRIES
DRESSINGS**

N. & M. GOULD LTD.

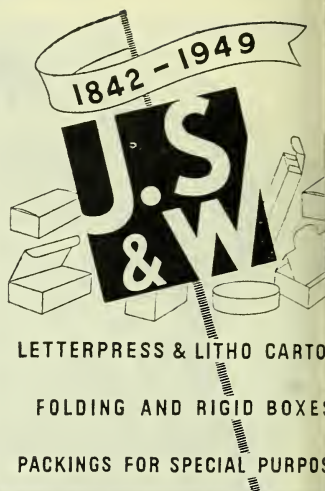
*Wholesale Chemists' and Druggists'
Sundriesmen*

62, 64, 66, STONEY LANE

LONDON, E.C.3



Bishopsgate 1172-3-4 **PATA**



LETTERPRESS & LITHO CARTON

FOLDING AND RIGID BOXES

PACKINGS FOR SPECIAL PURPOSES

JOHNS, SON & WATTS LTD.

The Packaging Specialists

2-4 EPWORTH ST. LONDON E.C.6

Phone: MONarch 7408 (three lines)

**IF YOU HAVE
RATS
GIVE
THEM A
BISCUIT**



... but make
sure it's a
VEXTERM RAT
BISCUIT, no harm-
ful to pets, human beings or farm
yard stock, but death to rats and
mice. Clean, safe and easy to handle.
From Chemists, Ironmongers and
Stores everywhere. Price 1/6 & 5/

VEXTERM
READY-BAITED
RAT BISCUITS

Agriculture and Fisheries Licence No. 10184

Manufactured by

BRITISH RODENT EXTERMINATOR CO.

PRATTS BOTTOM · FARNBOROUGH

Phone: FARNBOROUGH 849

DIMP

keeps the midges away



year's exceptional weather
ns that midges and other
sting insects are a bigger pest
ever. It means also that you
get more requests for DIMP,
so make sure you have plenty
stocks.

CREAM 50% D.M.P. Pleasant, non greasy, vanishing,
attractive Satin finished Aluminium flat Tins
containing 1.8 oz.

Packed 2 Doz. per Display Outer.

LIQUID 100% D.M.P. Attractive 1 oz. Bottles with
controlled pourer. Packed 1 Doz. per Display outer.

- ★ *Retails at 1/1½d.
with generous profit
for you.*
- ★ *Carriage paid on
2 Doz. upwards.*
- ★ *Immediate delivery.*

ORDER NOW from

SCOTT & TURNER LTD., NEWCASTLE - ON - TYNE 2

D.T.4.

CARTONS AND DISPLAY CONTAINERS

We invite your enquiries for
cartons and display containers
at present in use and for new
designs.

BOXFOLDIA LTD.
CARTON MANUFACTURERS
BOURNBROOK, BIRMINGHAM

SD2

The Symbol of PERFECT Skin Health

A revolutionary product for the treatment
of skin illnesses with unusual penetrative
power. Sold under a money-back guarantee
of satisfaction. Liquid and cream. Prompt
deliveries.

BIO-COLLOIDS, LTD. ALTRINCHAM, CHE

PATA



BO:

To maintain our

QUALITY D. & P.

service we regret that only existing
accounts can be handled this month.
Enquiries for service from 1st. Sep-
tember should be addressed now to

BROADSTAIRS PHOTO WORKS LTD

Victoria Road, Ramsgate

SECTO

EXTRA POWER.

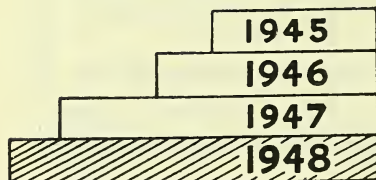
D.D.T.

The Ser

British

Insectic

A BEST SELLER FOR 42 YEARS and increasing each year



EXTRA POWER brings in EXTRA SALES
with EXTRA PROFITS

A strong advertising campaign is included in
1949 SALES PLAN.

IT PAYS TO DISPLAY SECTO

CUPAL LIMITED • MANUFACTURING CHEMISTS • BLACKBURN

keep these EUCRYL prices handy

DENTIFRICES—bonus one to the doz. for Window Displays.		Retail Price including Purchase Tax	Net Price to Retailers excl. Purchase Tax
Eucryl Toothpowder	(small)	9d.	5/3
" "	(large)	1/3	8/5
Eucryl Denture Powder	(small)	9d.	5/3
" "	(large)	1/3	8/5
Eucryl Toothpaste	"	1/3	8/5
Eucryl Dental Plate Fixative	(small)	1/- No. P.T.	8/5
" " " "	(large)	2/6 " "	21/-
OTHER LINES			
Forest Pine Disinfectant	(4 ozs.)	10d.	6/9
(A special quality product)			
Lysol Disinfectant	(4-ozs.)	—	5/9
" "	(8-ozs.)	—	9/9
" "	(1 Gal.)	—	10/9
LUCE'S PERFUMERY			
Luce's Eau-de-Cologne, and	(1-oz.)	3/4	16/-
Luce's Lavender Water	(2-ozs.)	5/10	28/-
" "	(4-ozs.)	10/10	52/-
Luce's Flower Perfumes	(½-oz.)	4/2	20/-
Jersey Lily	(1-oz.)	7/6	36/-
Jersey Heather, Violet, Oregon	(2-ozs.)	12/6	60/-
Luce's Soapless Shampoo	(4-ozs.)	1/10	12/-
Luce's Talcum (Eau-de-Cologne or Lavender)		2/1	10/-

Minimum Parcels are as follows :

EUCRYL DENTIFRICES :— 30/- net. ex. P.T.—single or assorted.
LYSOL DISINFECTANT :— 6 dozen 4-oz. size, 2 dozen 8-oz. size.
LUCE'S PREPARATIONS :— Orders over £2 net. No minimum if
 (PERFUMERY, TALCUM, SHAMPOO) added to a Dentifrice order.

*Eucryl advertising
appears regularly in
the Press, in the Cinemas,
on the railways, where
the public can't fail
to see it!*

EUCRYL LTD. 7-9 Oakley Road, Southampton



For
**CHEMISTS
ONLY**

A NEW
PROFITABLE
QUICK-SELLING LINE

HOSTIS
FRUIT SQUASH
Making a host of friends

**RESTRICTED
EXCLUSIVE
TO CHEMISTS**

GOOD PROFIT
RETAIL PRICE - per bottle
YOUR RETURN 1/9
YOUR BUYING PRICE 1/3
YOUR PROFIT 2/3
(equals 33%)

ATTRACTIVE
And a quality you can recommend. The smartest, most attractive display. Popular flavours. Orange, Lemon and Orange, Applm (a Lime flavoured juice cordial).

ORDER THROUGH YOUR
USUAL WHOLESALE C

CITRUS Products Co. Ltd. 87 Regent St.

**A GRAND
COUNTER ATTRACTION
- and FREE!**



This attractive Display
Outer comes free with
every dozen lot of

Besorbon medicinal snuff. Give your usual
wholesaler a trial order for this all-year-round
preventive remedy for Hay Fever, Colds and
Catarrh—backed by national advertising, Besorbon
sells on sight! Put it on your counter.

BESORBON

Kemsales Ltd., 20 Eastcheap, London, E.C.

PROPAX
DOUBLE POWER
TABLETS

Really Stop Pain

A double power analgesic
in ever increasing demand
Prompt delivery from a
wholesaler or direct from

**SPLENDOR
LTD.**

4d, 7½d, 1/7 and 2/9 Incl. P. T.

LONDON and NOTTINGHAM

Grateful Mothers are asking for ZAC!
Nurses are strongly recommending it!

Are YOU getting YOUR Share of the Sales?

From all over the Kingdom—from Scotland to Lands End—come letters from grateful mothers and from nurses and midwives—in warm praise for ZAC Baby Products. Sales are mounting steadily. Are you getting your share? Read these letters:

Sore buttocks cleared after two applications.

"I have fifteen months' old twins and the larger baby is very prone to sore buttocks. After two applications of ZAC Baby Cream all signs of redness had completely disappeared. I have tried many creams and a prescription to no avail. I am indeed grateful to you."

Mrs. M. F.—Coventry.

"Very beneficial for sore buttocks and urine rash"

—writes a S.R.N.

"I have used ZAC Baby Cream on the buttocks of the infants at the Nursing Home and have found it very beneficial for preventing sore buttocks and urine rash. As it is so soft and "creamy" I have found it easy to apply and very good for removing meconium which has dried on the buttocks.

I have used ZAC Baby Powder for dusting the infants' skins after bathing and have advised many mothers to use ZAC Baby Cream and Powder."

A.G. S.R.N. S.C.M.—Tynemouth.

Delighted with results.

"I am delighted with the results from using ZAC Baby Products and I shall be pleased to recommend them in all maternity and midwifery cases, also to the aged and infirm whose skin needs special attention."

B.S. S.R.N. S.C.M.—Wilts.

ZAC

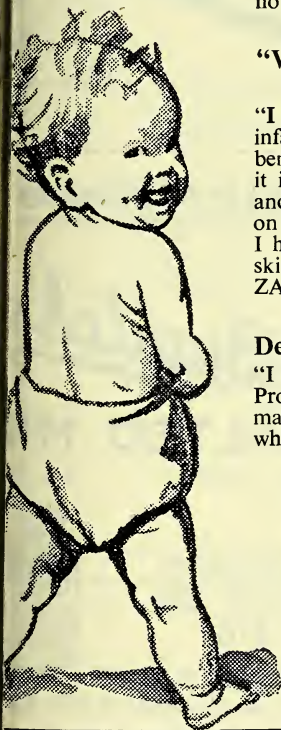
BABY CREAM
BABY POWDER
GRIPE MIXTURE

Manufactured by

HOUGH, HOSEASON & CO. LTD.

Atlas Laboratories · Levenshulme · Manchester

DISTRIBUTORS FOR EIRE. ARGUS CHEMICAL CO. LTD. 22 MARY STREET, DUBLIN



Soluble extract of
Barley ... 7.4%
Sugar ... 23.7%
Solid Glucose
10.4%
(= Liquid Glucose
28%)
Lemon Juice 37%

Plus Flavouring
and permitted
preservative

The above
percentages are expressed
in weight per given volume

*As an Antacid
or in febrile conditions*
Invalid
Lembar

justifies the doctor's highest recommendation

Available in limited quantities

MADE BY RAYNER AND COMPANY LIMITED, LONDON, 11



Doctors are Prescribing
"D.5 DAMANCY"

They are Dellipsoids

D.5 RHEUMALGESIA

the new

SUCCINO - SALICYLATE TREATMENT
for RHEUMATIC CONDITIONS
and accompanying pain

These are the actual products used in this Country
in clinical trials: they have been designed to fit
a definite treatment based upon the results and
experience gained in these trials by responsible
clinicians.

Descriptive literature sent on request.

D.5 Rheumalgnesia are supplied In :

Bottles of 1,000

" " 500

Packs of " 100 retail 7/-. Incl. P. Tax. .



DAMANCY & CO. LTD HARROW MIDD.
ESTABLISHED 1890

Telephone : BYRon 1440/1800

Telegrams : Damancy Harrow

ALWAYS IN DEMAND

Beaulah's
MALTED MILK

PACKED IN ONE
POPULAR SIZE

2/6



J. & J. BEAULAH LTD
BOSTON, Lincs.

Firm Favourites!

with every member of the family

CUTICURA PREPARATIONS

(MEDICINAL AND TOILET)

SOAP . OINTMENT

TALCUM POWDER . SHAVING STICK

These grand aids for skin-care have been giving confidence and satisfaction for over 65 years.

Profits are good — Advertising consistent and widespread. Sales-promoting window displays always at your service.

The following attractive products, each with a universal appeal, will shortly be added to the popular Cuticura Range:

HAND CREAM . BABY OIL

SHAVING CREAM . LIQUID ANTISEPTIC

AFTER-SHAVE LOTION

British Distributors: **NEWBERY & PHILLIPS LTD.**

203, Victoria House, Southampton Row, London, W.C.1

TELEPHONE: HOLBORN 1564

for

THE POTTER DRUG & CHEMICAL CORPORATION

205-207, Victoria House, London, W.C.1



Florogen

FROZEN COLOGNE

SOLIDIFIED EAU DE COLOGNE

Cooling—refreshing—

Insect repellent

Handy size for
or hand bag in
cap aluminu
container

FROZEN LAVENDER

in similar packs as illustrated

Dressing Table size in glass

screw cap container.



Full details on request, to sole manufacturers:—

FLOROGEN LTD.
MITCHAM, SURREY

Millions of Women

are being told about this famous Eye-lash Beautifier through an advertising scheme which blankets the country.

ADELAIDE GREY'S 'LALEEK'

LONGLASH



Medically approved. A line which sells on sight. Retail at 2/1. Usual trade discounts. Supplied in display cartons of 1 doz.

Order through your wholesaler. If any difficulty, write direct to:

ADELAIDE GREY LTD

30 (c) Old Bond Street
London, W.1

Telephone:
Regent 5825



We are frequently being asked for tax free dispensing packs of

DIUROMIL

The authorities have ruled that owing to Piperazine Citrate and Tartrate being compounds of specified substances and not themselves specified in the official publications

**DIUROMIL CAN NOW
BE OFFERED IN A
DISPENSING PACK**

PHARMAX LIMITED
THE ORGAN WORKS
OLD HILL · CHISLEHURST · KE

Now with all Wholesalers!!

The new **2/-** size



Packed to meet the increasing demand for the modern

P.A.T.A.

PHERIBAN TONIC TABLETS

and the decreasing spending power

PHERIBAN sells well despite "free" medicines, because as a tonic it fulfils all that claimed for it.

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CHLORDYNE

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*Remember that the
three different forms of*
'BISURATED'
Trade Mark
Magnesia

*attract three different
types of custom*



When giving your order for 'Bisurated' Magnesia—and also when supplying it to your customers—it is worth while to remember that this popular antacid is put up in three different forms, each attracting a different type of custom : (1) *in tablets*—for the all-day-long convenience of the casual taker ; (2) *in mint-flavoured powder*—specially suitable for taking at bedtime; and (3) *in powder (plain)*, for people who don't like the flavour of mint.

PRICES

SIZES	TRADE	RETAIL (INC. P.T.)
Small	12/9 per doz.	1/9 each
Large	26/- per doz.	3/7 each

Tablets, and Plain or Mint-flavoured Powders, in both sizes

'Bisurated' Magnesia can be included with other I.C.C. lines to qualify for Co-operation Discounts of 12½% on orders of £10 and over, 10% on orders of £5 and over.

NOW!...

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A NEW LINE for a vast NEW MARKET

Here's a line millions have been looking for ... millions of men and women who have despaired of finding an effective tonic and dressing for dry, brittle hair and scurfy scalp. NOW Silvikrin Hair Tonic Lotion WITH OIL supplies their need—and your opportunity! This addition to the famous Silvikrin products combines three selling points. It is a health-giving daily lotion; it contains special oils to correct dry scalp and hair; it contains Pure Silvikrin, the hair's natural food. National Advertising is spreading the glad news of Silvikrin's Lotion with oil to 'dry-heads' everywhere ... act NOW to cash in on the big demand for this regular seller.

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LOTION *with OIL*



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Medical Instrument Business in Central London. Established 300 years. Complete scope. Turnover under management for completed financial year over £17,000. Stock value at £5,250. Spacious factory 10,000 sq. ft. Lease Professionally valued at £1,000. Total share Capital issued £6,446. Vendors who are unable to give the business personally, will accept £1 per share which represents no sum whatsoever in respect of goodwill.

Antim. Business and Branch for separately or together. Living accommodation. Turnover approximately £6,000 and per annum respectively. Good profits. Stocks, attractive fixtures. Low rent secure. Purchase prices required and £2,300 respectively. No doubt a business would be made if businesses were together. Vendor going abroad.

3. Scotland. Ayrshire; winding up of estate necessitates disposal of old-established good-class business. Turnover last year over £4,000 increasing. Living accommodation. Dispenser and two assistants employed. Valuable stock and fixtures. Large garden. Total purchase price including property, £3,100.

4. Scotland. Near Elgin, Morayshire. Old-established. Unopposed village business with excellent living accommodation and garden. Turnover about £3,500, good ratio net profit. Price asked for goodwill and fittings, £1,050, plus s.a.v. (approximately £1,500).

5. Ireland—Stocktaking. A skilled and experienced staff is at the service of Irish pharmacists. Work is done quickly, efficiently and accurately. Detailed results showing cost and retail available within a few days.

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Phone: Midland 6547
Phone: Southampton 71708

BUSINESSES FOR DISPOSAL

1/6 (minimum) then 3d. per word. Box 2/-

E. Insecticide business (DDT) complete registered trade mark and substantial stocks, some 20,000 tins, concentrated DDT literature, etc., and full manufacturing with famous London laboratories. £450. J. H. Bros., 90 Lower Thames St., London,

BUSINESSES WANTED

1/6 (minimum) then 3d. per word. Box 2/-

CHEMIST, young, family man, desires to business in South or West country. Bused in residential or suburban part of city preferred. Capital available, early arranged. Replies in strict confidence to Box 2.

APPOINTMENTS

6 per line (12 lines = 1") Box 2/-

END HOSPITAL & CLINIC, ST. ALBANS, HERTS

NSER (locum tenens), male or female, immediately. Salary 7 guineas per week. Apply, stating full particulars of experience to Medical Superintendent, Hill End Hospital & Clinic, St. Albans, Herts,

BOTLEYS PARK HOSPITAL MANAGEMENT COMMITTEE

REGISTERED ASSISTANT PHARMACIST for Botleys Park Hospital, Chertsey, Surrey. J.N.C. (Hospital Staffs) salary, viz., £370 inclusive; annual increment up to £450 p.a. Previous experience may determine commencing salary. Recently qualified pharmacists eligible. Opportunity to take part in preparation of sterile products. Whole-time, established, pensionable, subject to medical exam. Application, stating age, qualifications, experience, with copies of not more than three recent testimonials, to Physician Superintendent, Botleys Park Hospital, Chertsey, Surrey.

CONNAUGHT HOSPITAL, WALTHAMSTOW, E.17

LOCUM PHARMACIST required from 5th-24th September, 1949. Salary 14 gns. p.w. Resident or non-resident. If resident, a deduction at the rate of £130 p.a.

Applications, stating age, experience and names of two references, should be sent to The Secretary, Hospital Management Committee, Forest Group No. 11, Administrative Offices, Langthorne Rd., Leytonstone, E.11.

The Bridge
Walsall, nr. Birmingham
 Phone : Walsall 5948
28 Rigby Buildings, 4 Aytoun St.
Manchester 1
 Phone : Central 0877
141 Bath St., Glasgow
 Phone : Douglas 3168

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"Edwina," Oaklands A
Saltdene, nr. Brighton, S.

Phone : Rottingdean 82

BUSINESSES FOR DISPOSAL

A.1. Southfields (Near). Middle and working class family business with living accommodation; net profit for income tax purposes (1948/49) £892. The owner is retiring and scope should exist for appreciable further development. Total minimum price £2,250. Excellent opportunity.

A.2. South London. Well-established pharmacy with good medical connections. Turnover for last financial year approached £14,000. Rent £300 per annum less sub-let £175. The premises occupy a first-class trading position. Total capital requirements approximately £6,500/£7,000. Well recommended.

A.3. Kent (Seaside Resort). Drug Store which should offer appreciable scope under qualified proprietorship. Lock-up shop, etc., situated near to sea front. Total price, £875, including stock estimated at £620.

A.4. Suffolk. Country village business of the mixed type for disposal owing to retirement. Turnover for last financial year exceeds £7,700, and scope should exist for further development.

The freehold property, which includes available living accommodation, is also for sale. Price of the business and property is a matter for negotiation, and the Vendor will consider allowing part to stand over for an agreed period.

A.5. Essex (Congenial Town). Well-established business occupying main road position. Turnover for 1948/49 £9,205. Price £6,000, including stock estimated at £1,500. Owner retiring.

A.6. Hants. Freehold property which for many years up to 1940 had been utilised as a pharmacy. Premises include living accommodation. Offered for freehold (with vacant possession) £2,250. Reasonably near offers considered.

A.7. Notts. Family business offering good scope for further development. Turnover for 1948 £3,465. The price asked for the business £2,000, which includes stock estimated at (to be taken at valuation). The property, which a substantial mortgage could no doubt be arranged, is also for sale at a price of £750, flat above the shop is at present sub-let.

OFFICIAL VALUERS TO THE N.P.U. BUSINESS PURCHASE FUND

Appointments—Continued

CONNAUGHT HOSPITAL, WALTHAMSTOW, E.17

ASSISTANT TO PHARMACIST required immediately (Hall certificate). Hospital experience preferred. Salary in accordance with J.N.C. scale. Applications, stating age, experience, etc., together with copies of two recent testimonials, to the Secretary, Forest (No. 11) Group Hospital Management Committee, Langthorne Rd., Leytonstone, E.11.

NATIONAL HEALTH SERVICE DARENTH AND STONE HOSPITAL MANAGEMENT COMMITTEE

PHARMACIST-IN-CHARGE

Applications are invited for the appointment of PHARMACIST-IN-CHARGE (non-resident) at Darenth Park Hospital (for Mental Defectives) near Dartford, Kent.

A practical knowledge of photography is desirable.

Commencing salary within the range of £420 to £475 per annum and subject to annual increments and general terms and conditions of the Joint Negotiating Committee recommendations.

The post will be subject to the National Health Service (Superannuation) Regulations, 1947 and 1948, and the person appointed will be required to pass a medical examination. Applications immediately to L. T. Feldon, Secretary to the Management Committee, 15 Dartmouth St., London, S.W.1.

ENFIELD GROUP HOSPITAL MANAGEMENT COMMITTEE

SENIOR ASSISTANT PHARMACIST

Applications are invited from qualified pharmacists for the post of Senior Assistant Pharmacist at:—

CHASE FARM HOSPITAL, ENFIELD MIDDLESEX

Salary in accordance with J.N.C. (Staffs) Scale, i.e., £415 per annum by increments of £15 to £490 per annum. Previous experience may affect commencing salary. The post is subject to the National Health Service (Superannuation) Regulations, 1947, and to medical examination.

Applications, giving full details of qualifications and experience, together with the names of two referees, to the Secretary, Enfield Group Hospital Management Committee, Chase Farm Hospital, Enfield, Middlesex, not later than August 18, 1949.

HACKNEY HOSPITAL, LONDON, E.9

Applications are invited for:—

- (a) SENIOR ASSISTANT PHARMACIST
- (b) ASSISTANT PHARMACIST.

Vacancies occurring immediately. Salaries (a) £415-£450 and (b) £370-£400 respectively, commencing according to experience in the grades.

Apply as soon as possible, with copies of recent testimonials, stating qualifications, salary required, to Secretary, Hospital Management Committee, Hackney Group, London, E.9.



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TELEPHONE: MITCHAM 4739 & 0826**

Appointments—Continued

**TROPOLITAN BOROUGH OF
STEPNEY**

APPOINTMENT OF ASSISTANT ANALYST
PUBLIC HEALTH DEPARTMENT
Applications are invited for appointment to the
position of Assistant Analyst at a salary of
£570 per annum, plus appropriate Lon-
don Lighting Allowance.

Candidates must possess an appropriate Univer-
sity degree or the Associationship of the Royal
Society of Chemistry, and should have had
experience in the analysis of food and drugs.
Appointment will be subject to the appro-
bation of the Minister of Food, the National
Committee of Conditions of Service as adopted
by the Council, and to the Council's by-laws
under the Superannuation Acts.

Applications, on forms which are obtainable
from the undersigned, should be delivered to
the undersigned by the first post on the 12th Sep-
tember, 1949.

J. E. ARNOLD JAMES,
Town Clerk.

August, 1949.
Municipal Offices,
London Fruit Exchange,
Duval St., E.1.

**HOSPITALS FOR DISEASES OF THE
CHEST**

London Chest Hospital invites applications
for the post of SENIOR ASSISTANT PHAR-
MACIST with charge of the Sterilising Depart-
ment on J.N.C. salary scale with the range of
£2,490. Applications, with copies of testi-
monials, to be sent to the Secretary, London
Chest Hospital, Victoria Park, E.2.

**EDGWARE GENERAL HOSPITAL,
EDGWARE, MIDDLESEX**

LOCUM PHARMACIST required. 12 to 14
guineas per week according to experience.
Applications with full details to Medical
Director.

**FRIERN HOSPITAL
MANAGEMENT COMMITTEE**

Applications are invited for the appointment
of DISPENSER, whole time. Hours of duty
39 per week. No Sunday duty. Salary not
less than £7 7s. per week, according to ex-
perience. Applications, stating age, experience,
etc., should be sent to the Secretary, Friern
Hospital, New Southgate, London, N.11.

**NEASDEN HOSPITAL AND KINGSBURY
MATERNITY HOSPITAL
ASSISTANT PHARMACIST**

Application invited for Assistant Pharmacist at
Neasden Hospital and Kingsbury Maternity
Hospital. Salary on J.N.C. scale, according
to experience. No Sunday duty. Applications,
stating age and qualifications, with three re-
cent testimonials, to Physician-Superintendent,
Neasden Hospital, Brentfield Rd., N.W.10, not
later than 15th August, 1949.

**THE HOSPITAL FOR SICK CHILDREN,
GREAT ORMOND STREET, LONDON,
W.C.1.**

ASSISTANT PHARMACIST

Applications are invited for this position.
Salary, £370 to £450 on J.N.C. Scale, accord-
ing to experience. Apply, with details of age
and experience, to A. Rae, Chief Pharmacist.

NATIONAL HEALTH SERVICE ACT 1946 SHREWSBURY GROUP 15 HOSPITAL MANAGEMENT COMMITTEE

TWO ASSISTANT PHARMACISTS are required for duties in the area of Shrewsbury Group 15 Hospital Management Committee. Salary in accordance with the Joint Negotiating Council Scale.

Applications, stating age, qualifications (with dates), nationality, with copies of recent testimonials, should be sent to the undersigned.

J. P. MALLETT,
Secretary.

Royal Salop Infirmary,
Shrewsbury,
26/7/49.

SUNDERLAND EDUCATION COMMITTEE THE TECHNICAL COLLEGE

Principal: D. A. Wrangham, M.Sc., Sen. Wh. Sch.,
D.I.C., M.I. Mech. E., A.C.G.I.

APPLICATIONS are invited for the following posts in the Pharmacy Department:—

1. Lecturer in Pharmaceutics and subsidiary subjects. Previous teaching experience desirable. Salary according to Burnham Scale for Lecturers. Advancement to Senior Assistantship possible for person with qualifications and ability to pursue pharmaceutical research.
2. Demonstrator in Pharmaceutical subjects. Salary £300 per annum. Opportunities for advanced study or research.

Preference will be given to candidates who hold the B.Pharm. degree. Further particulars and Forms of Application may be obtained from the Registrar, The Technical College, Sunderland, Co. Durham.

Applications should reach the undersigned within fourteen days of the appearance of this advertisement.

Canvassing will be a disqualification.

W. THOMPSON,
Director of Education.

Education Offices,
15 John St.,
Sunderland, Co. Durham.

THE HOSPITALS FOR DISEASES OF THE CHEST

THE LONDON CHEST HOSPITAL,
VICTORIA PARK, E.2.

LOCUM PHARMACIST IN CHARGE required from Monday, 29th August, to Saturday, September 10, inclusive. There is one assistant. Salary £10 10s. per week, with lunch and tea. Apply with full particulars to the Secretary.

WEST LONDON HOSPITAL, HAMMERSMITH ROAD, W.6.

Applications are invited for the appointment of Assistant Pharmacist (male). Salary in accordance with the J.N.C. Scale. Applications, with usual particulars to the Chief Pharmacist.

WEST MIDDLESEX HOSPITAL SOUTH-WEST MIDDLESEX HOSPITAL MANAGEMENT COMMITTEE

LOCUM ASSISTANT PHARMACIST required for the following period:—

22nd August to 1st October
Salary £8 8s. to £10 10s. per week, according to experience. Non-resident. Applications, with testimonials and full particulars of age, qualifications and experience, to the Chief Pharmacist West Middlesex Hospital, Isleworth, Middlesex.

NORTH MANCHESTER HOSPITAL MANAGEMENT COMMITTEE

ANCOATS HOSPITAL,
MILL STREET, MANCHESTER.
SENIOR ASSISTANT PHARMACIST required. Salary in accordance with scales.

Applications, stating age, experience, qualifications and date of qualification, together the name and address of two referees, to be sent to the undersigned as soon as possible.

JOHN H. DAFFORNE,
General Superintendent.

WEST LONDON HOSPITAL HAMMERSMITH, W.6

Required ASSISTANT with Apothecary certificate in dispensing. (Hospital experience preferred.) Salary in accordance with Scale. Apply with usual particulars Chief Pharmacist.

Vacancies advertised are restricted to part-time employments excepted from the provisions of Control of Engagement Order, 1947.

SITUATIONS OPEN

36 words 8/6 (minimum) then 3d. per word.

RETAIL (HOME)

A COMFORTABLE SITUATION is offered to a qualified lady or elderly gentleman (single) in London suburb. Pleasant living accommodation above pharmacy available if required. Licence of N.H.S. dispensing fees. Any salary asked for will be given. Apply Box CHANNEL ISLANDS. Pharmacist (single) as manager for Guernsey. Light, congenial. No N.H.S. Interviews London or South. Full particulars to Box 6/518.

CHOICE OF SUITABLE accommodation, required, on appointment. Qualified person and female, are required to manage a pharmacy in south-east and south-west of London. Positions are available offering from £550 to £650 per annum, plus general commission. Engagements are permanent and include entry into superannuation. Apply, giving full particulars to the Staff Royal Arsenal Co-operative Chemists, Ltd., Powis St., Woolwich, S.E.18.

DEREK CLARKE, Edgware. Experienced, qualified assistant. Essentially dispensing (lady or gentleman). Full time, approximately 42 hours per week. Shift work two late nights per week. One Sunday in four, rota duty. Salary at experience. Derek B. Clarke, 85 Station Road, Edgware, Middlesex. Edgware 2061.

EDWARD WAKE, Pharmacist required. Essentially dispensing (lady or gentleman). Full time, approximately 42 hours per week. Shift work two late nights per week; 3-10. One Sunday in four duty. Salary according to experience. Derek B. Clarke, 85 Station Rd., Edgware, Middlesex 2061.

LADY, experienced, for chemist's counter London. Progressive post for willing. Apply Box A/276.

LONDON, E.2 (near the City). Assistant, or unqualified, for about six weeks for work. Apply (letter only), giving particulars, age, experience, names of references, as required. Pharmacist, 35 Sydney Rd., Stoke Newington, London, N.16.

Situations Open—Continued

CO-OPERATIVE CHEMISTS, LTD., invite applications from experienced pharmacists for managerial vacancies in pleasant suburban modern, well-equipped shops with good staffs, attractive salary, generous commission with payment for all rota duties. Permanent and superannuated, with excellent prospects. Choice of living accommodation or flat, where required. Full particular experience, wages, required, etc., to Resident Chemist, Grange Rd., Leyton, E.10. **DESS OR MANAGER** required for small shop. Good-class trade, Ilford district. Would be assistant wishing to improve position. Tel. 1706 or write Box 6/528.

E & CO. (LIVERPOOL), LTD., requires a pharmacist as manager to open new shop in Speke area, Liverpool. Apply by 10.30 to G. E. Metcalfe, 34 Landford Avenue, St. Rd., Liverpool, 9.

HILL. Unqualified lady assistant required for good class business. Knowledge of dressing, toilets, dispensing, an advantage. 40 hours, good salary. Apply to Proctor & Co., 116 Avenue Parade, Alexander Park, N.10.

MANAGER of branch required. Particulars kept. House available. Apply to particulars including salary desired and experience to:—The Secretary & General Manager, Morley Industrial Co-operative Society, 10 St. Morley, Leeds.

PHUS JEVES & CO., LTD. require an assistant manager for their main retail pharmacy. Position with superannuation scheme. No salary. Full particulars in first letter to J. & Co., Ltd., The Drapery, Northampton.

HARRIS, LTD., Edmund Street, Birmingham, require the services of a qualified pharmacist dispensing department. The position is permanent and offers excellent opportunity for advancement. Close 12.30 Saturday. Apply in first instance, stating salary required.

MANAGER wanted for City business. Full particulars. Clay & Abraham, 10 Bold St., Liverpool, 1.

ED ASSISTANT required for central pharmacy. Superannuation, 44-hour week. Application age and experience, to Oldham Co-operative Chemists, Ltd., King St., Oldham.

ED ASSISTANT PHARMACIST required for a situated pharmacy, Coast resort. Trade opportunities. Applications to managing Secretary, Wimsey Co-operative Society, Ltd., 74 Garsington Road, Grimsby.

ED ASSISTANT, counter and dispensing. Class. Permanency. Interview if possible. Good house. Particulars to Chas. J. Taylor, 292 Cheriton Rd., Folkestone.

ED MANAGER required for branch pharmacy, £10 per week, and commission on Health dispensing (minimum £1). Superannuation scheme. Apply, stating age and experience to Kidderminster Co-operative Chemists, Forester St., Kidderminster.

G. Young qualified assistant required for branch shop in good middle-class district. Suitable self-contained flat over business premises. Good salary paid. No Sunday or holiday except on local 6 to 7 p.m. rota, one day a week. Apply to G. B. Osborne, M.P.S., 10 St. Reading, Berks.

LIFIED ASSISTANT (lady or gentleman) required dispensing in busy pharmacy. Excellent conditions. Apply with particulars of experience and salary required, to O. L. Carrington, 100 Don Rd., Croydon.

UNQUALIFIED LADY assistant required mainly for dispensing in high-class pharmacy. Good working conditions, easy hours. Would suit young lady recently completed apprenticeship. Good salary to suitable applicant. Apply, C. Stevens, 38 Health St., Hampstead, N.W.3.

WE HAVE SEVERAL interesting and well-paid vacancies for unqualified staff in the London areas of Ilford, Greenford, Battersea and Edgware. Application in first instance to Superintendent Chemist, London Co-operative Chemists, Ltd., Grange Rd., Leyton, E.10.

WANTED. Qualified person to manage business in Coleford, Glos. Flat available, superannuation scheme and salary based on sales. Present trade £140-£150 weekly. Replies to Co-operative Society, Cinderford, Glos.

LOCUMS WANTED

LOCUM wanted for whole or part-time for the period August 15 to September 15. (Unqualified would suit except for August 28 to September 10.) No Sunday or half-day duty. Three other assistants. J. R. Bentley, 85 Kirkgate, Leeds, 2. **LONDON CO-OPERATIVE CHEMISTS, LTD.**, have vacancies for locums, both men and women pharmacists, to the end of October. Full particulars as to vacant dates, experience, salary and commission required, in first letter please, to Superintendent Chemist, Grange Rd., Leyton, E.10.

RETAIL (OVERSEAS)

PHARMACIST REQUIRED for American type drug store in Bermuda. Married man preferred. Good opportunity. Apply in first instance, stating qualifications, to Wates, Ltd., 1260 London Rd., S.W.16.

WHOLESALE

AGENTS REQUIRED . . .
IN ALL TERRITORIES TO HANDLE
WELL-KNOWN TOILET ROLL
MANUFACTURERS' PRODUCTS

SALARY AND COMMISSION**Box A/271**

AGENTS' SALESMEN/TRAVELLERS with sound connection with chemists, central and Greater London are offered a lucrative sideline on good commission. Completely new, fully patented, no competition, sells at sight, fast repeating. Phone or write for appointment, Walter Shaw, Ltd., 15 Marylebone Mews, New Cavendish St., W.1. Welbeck 1853.

APPLICATIONS are invited for the post of works manager for London firm of pharmaceutical manufacturers. Owing to wide range of articles handled previous experience with a firm carrying on a general wholesale and manufacturing business would be desirable. Might appeal to young man possessing ambition and drive at present working as assistant and seeing little immediate prospect of promotion. Ph.C. is the minimum qualification, but emphasis will be placed on intrinsic ability rather than possession of overlapping academic qualifications. Present staff are aware of this advertisement. Box A/313.

A RESEARCH PHARMACIST, preferably also possessing chemical qualifications, is required as chief assistant chemist by a well-known company in the North-west. Commencing salary will be in region £600-£700 according to experience. Please reply in confidence to Chief Chemist, Box 6/537.

Situations Open—Continued

ASSISTANT to commercial manager for old-established manufacturing and wholesale chemists, North of England. Applicant must be a qualified chemist and druggist with wholesale house experience in correspondence, costing and organisation. Opportunity and permanency offered to suitable applicant not over 40 years of age. Pension scheme. State experience, salary suggested, and copy refs. to Box 6/522.

BAYER PRODUCTS, LTD., require clerk in production planning department. Previous experience in wholesale or manufacturing firm preferred. Applicants should give fullest details in writing, and wages required, to Production Director, Bayer Products, Ltd., Africa House, London, W.C.2.

BURROUGHS WELLCOME & CO., have two vacancies for young, enthusiastic pharmacists, as assistant marketing executives. The work is mainly concerned with distribution matters but does provide an insight into production and certain aspects of research. Applications, which will be treated in confidence, should give fullest details of education and previous experience and be addressed to the Manager, Publicity Division, Burroughs Wellcome & Co., 183-193 Euston Rd., London, N.W.1.

DISTRICT REPRESENTATIVES wanted on a commission basis by the makers of a well-introduced brand of electric pads and blankets to call on chemists, high-class retailers and stores. Please write, giving references, stating district covered and what other agencies held. Box 6/569.

MEDICAL REPRESENTATIVE for propaganda and sales to doctors, retail/manufacturing chemists, hospitals, required by manufacturers of ethical products for Derby, Nottingham, Leicester, Stafford and Shropshire. Car an advantage, must reside in territory. Full particulars of age, experience, salary required to Box A/279.

MEDICAL WRITER. The British Drug Houses, Ltd., have a vacancy for a copywriter to assist in the preparation of brochures and Press advertisements. Previous experience an advantage, but not essential if applicant can show evidence of literary ability and has some knowledge of medical representative work. Applications, with fullest details of experience, should be addressed to the Personnel Manager, Re RMA/WKW, The British Drug Houses, Ltd., Graham St., London, N.1.

OLD-ESTABLISHED proprietary toilet and soap house requires experienced representative with a connection with chemist, drug stores, Co-operative Societies and wholesalers in the following areas:—
(1) Glasgow, Lanarkshire and S.W. Scotland;
(2) Edinburgh, Stirling, Fife and S.E. Scotland. Apply, giving full details of experience and age, to Box A/300.

PHARMACIST (male) required for training in medical information department. The duties are of a non-commercial nature and require a knowledge of therapeutics and medical subjects generally. Hospital experience an advantage but not essential. Apply initially in writing, giving brief resume of career, to Box No. Medical A/320.

PHARMACIST with analytical experience required by a London house to take charge of analytical laboratory. Write, stating age, experience and salary required. Box A/278.

REPRESENTATIVE REQUIRED by well-known manufacturing chemists to sell nationally advertised toilet and medicinal lines to chemist, Co-operative Societies and stores in Somerset, Devon and Cornwall. Applicants should reside on the territory. Superannuation scheme in operation. Car provided. Details of experience, age and salary required to Box A/301.

REPRESENTATIVES REQUIRED by pharmaceutical house of high repute to detail medical and professions for Eastern Scottish territory; London, Surrey, Devon and Cornwall (applies for London, Surrey, etc., must reside in Surrey, Eastern Scottish territory; Lancashire. Applicant must have had similar experience. Write, giving age, details of experience and salary required, to Box A/302.

REPRESENTATIVE required calling on doctors, chemists in Essex and Sussex and doctors, hospital and veterinary surgeons in North and North London, Middlesex, Hertfordshire, Buckinghamshire and Essex, for wholesale manufacturing house. Reply giving full details, experience, to Box A/7.

REPRESENTATIVE (expenses and commission) required by manufacturers of nationally advertised cosmetics to call on chemists, stores, hairdressers, Co-ops., etc. in Yorks, Lancs, and other North Counties; also Scotland. Good connection an essential. Write, giving full particulars, age, experience, etc., and state area covered or desired. Box A/311.

SALES REPRESENTATIVE for all veterinary products to qualified profession in Devon, Cornwall and West Counties. Good salary with expenses and commission. Excellent prospects for man with initiative. Knowledge of veterinary products essential. Apply Box A/315.

SUPERVISOR REQUIRED for manufacturing department by reputable pharmaceutical house. Apply, giving age, details of experience and salary required, to Box A/303.

SALES AGENTS and representatives with live connections with chemists, drapers, druggists, etc., co-operatives, etc., required by manufacturer of surgical dressings (S.T.'s) and baby goods, Lancashire, Wales, Midlands. Only live men who proved ability need apply, giving full particulars. Box A/296.

SALES REPRESENTATIVE for all veterinary products to qualified profession in Kent, Hampshire, Surrey and adjoining counties. Good salary with expenses and commission. Excellent prospects for man with initiative. Apply Box A/316.

SENIOR MEDICAL/TRADE representative for London to act also in general supervisory capacity. Must have considerable experience with established and established connection. Remuneration by arrangement. Also fully experienced medical/representatives required for (1) Yorks area (2) Lancs area. Salary, expenses and overall commission. Write full details to Allied Laboratories, 140 Park Lane, W.1.

SMALL FIRM of wholesale and manufacturing chemists will shortly have a vacancy for a representative to take over and expand an established connection among chemists in Manchester district. Applicants must have a good knowledge of drugs, galenicals and patents, possess salesmanship, initiative and energy. Excellent prospect of one capable of making friends readily. Salary, commission and expenses. Box 6/530.

WELL-KNOWN SCOTTISH manufacturing chemist require assistant with practical experience in pharmaceutical manufacture, especially of sterile products. Apply Box A/314.

YOUNG PHARMACIST, preferably man, required in ampouling department of well-known London manufacturing chemists. Wholesale/manufacturing experience useful but not essential. Starting salary moderate but good prospects for adaptable energetic person. Write fullest details to Box A/301.

Situations Open—Continued

ING WORKS CHEMIST (qualified) required by known manufacturing chemists in N.W. London producing dental, medicinal and toilet preparations. Five-day week. Manufacturing experience preferred but not essential. Good opportunity for ambitious worker. Write, stating experience, to required, etc. Box A/312.

WHOLESALE (OVERSEAS)**CHEMIST REQUIRED FOR NAIROBI**

Chemist required for old-established and progressive pharmacy in Nairobi, Kenya Colony. Single man preferred. Good salary and commission offered. Director is at present in England and interviews can be arranged at short notice. Please reply giving age and full details of previous experience to Frank Ross Co. (London), Ltd., 4 Lloyd's Avenue, London, E.C.3.

MACIST urgently required for service with industrial concern operating in the Middle East. Large hospitals and staff of British M.O.'s sisters. Considerable dispensing for hospital out patients clinic. Applicants must hold 1st and be not over 35. Attractive salary plus bonus allowance in local currency. Free passage and home, medical attention, kit allowance, and scheme, good leave arrangements. Write, giving age and full details of qualifications and experience, quoting Dept. F.94, to Box 2201, at Fresham House, E.C.2.

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otherwise stated, address all replies to Box Numbers c/o THE CHEMIST & DRUGGIST, 28, Essex St., London, W.C.2

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CAPACITY available for the manufacture and/or packing of pharmaceutical or toilet products for home or export market by manufacturing chemists with modern equipment. All enquiries treated in strict confidence. J. J. & J. Jenkins & Associates, Ltd., 78 Bollo Bridge Road, London, W.3. (Acorn 4386).

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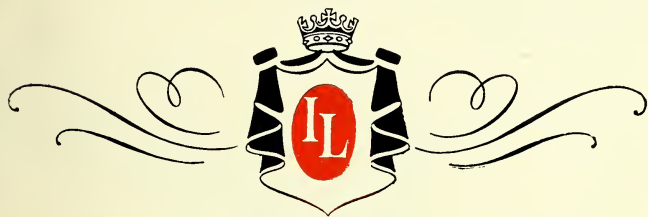


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